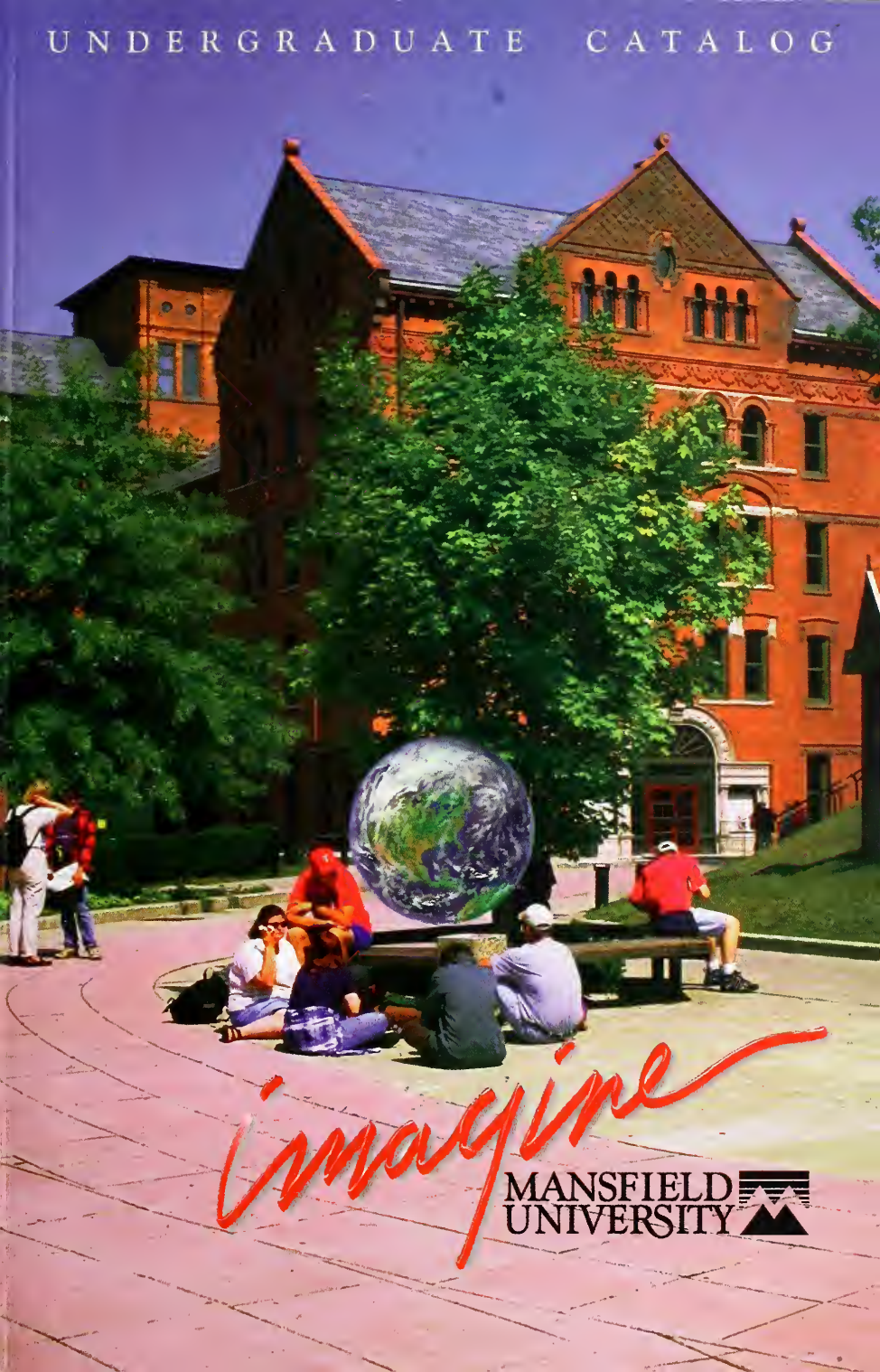
UNDERGRADUATE CATALOG



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MANSFIELD UNIVERSITY

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MANSFIELD UNIVERSITY

1997-98

UNDERGRADUATE

CATALOG

MANSFIELD UNIVERSITY OF PENNYSLVANIA
MANSFIELD, PA 16933
ADMISSIONS OFFICE
PHONE: 717-662-4243
FAX: 717-662-4121
E-MAIL: admissns@mnsfld.edu
WEB SITE: www.mnsfld.edu

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ADMINISTRATION AND INFORMATION

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Mr. Rodney C. Kelchner
North Hall 500; 717-662-4046

Provost and Vice President for Academic Affairs
Dr. Joseph Moore
North Hall 508; 717-662-4804

Vice President for Development
Ms. Leslie Folmer
North Hall 524; 717-662-4292

Vice President for Student Affairs
Mr. Joseph Maresco
North Hall 516; 717-662-4930

Vice-President for Administration & Finance
Mr. William Yost
North Hall 529; 717-662-4881

Academic Records
Ms. Mary Jane Watkins, Coordinator
South Hall 112; 717-662-4202

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Mr. Brian Barden, Director
Alumni Hall G4; 717-662-4243

Center for Lifelong Learning
Ms. Susan Sweet, Director
Doane Center 212; 717-662-4244

Financial Aid
Mr. Christopher Vaughn
Alumni Hall 104; 717-662-4878

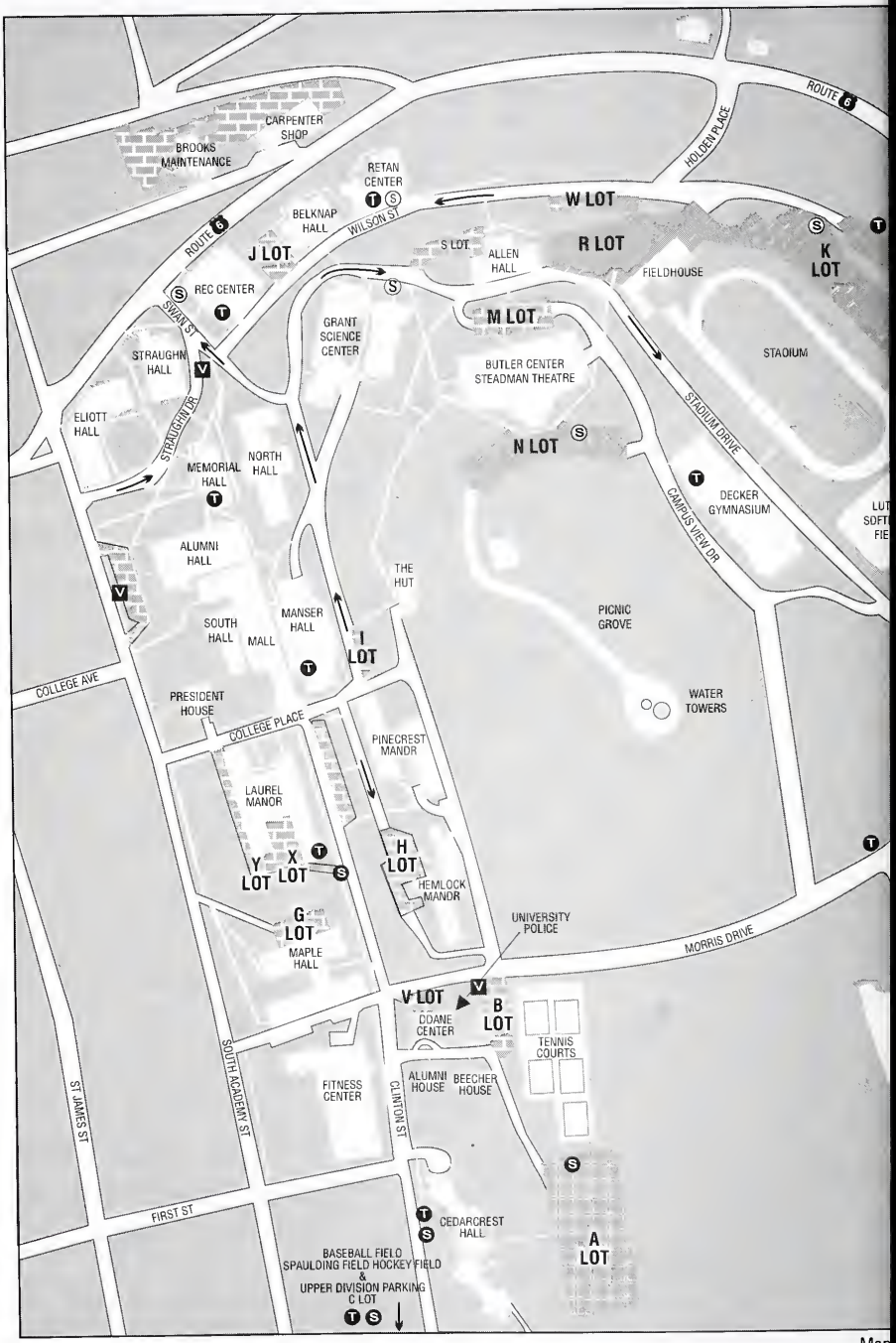
Graduate Studies
Dr. Sandra Linck, Associate Provost
North Hall 509; 717-662-4806

Information Resources
Dr. Larry Nesbit, Director
North Hall 214; 717-662-4672

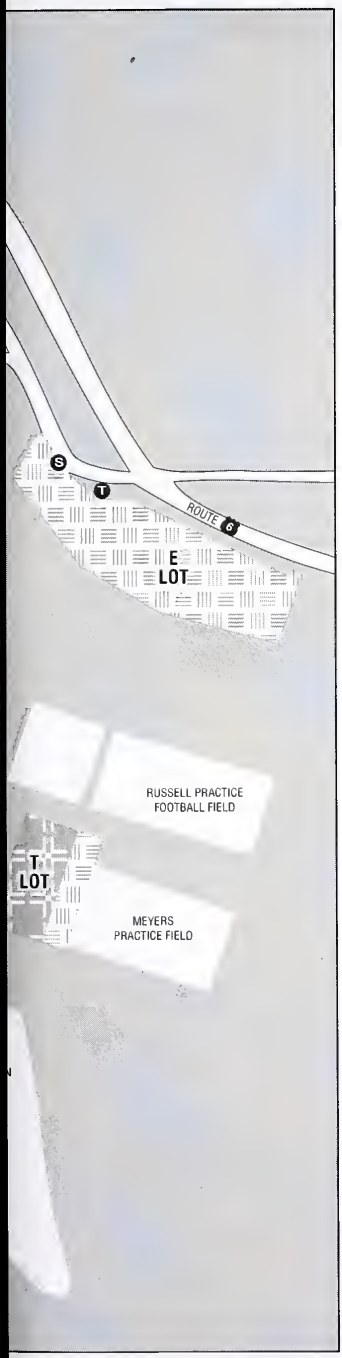
Public Relations
Mr. Dennis R. Miller, Director
Beecher House
717- 662-4846

Residence Life
Mr. Michael Lemasters, Director
Pinecrest 120; 717-662-4933

Revenue/Financial Accounts
Mr. Curt Tofts, Controller
Alumni Hall 129; 717-662-4868


ROUTE 6
HOLDEN PLACE
CARPENTER SHOP
BROOKS MAINTENANCE
RETAN CENTER
BELKNAP HALL
WILSON ST
W LOT
S LOT
ALLEN HALL
R LOT
FIELDHOUSE
K LOT
J LOT
REC CENTER
SOMAN ST
GRANT SCIENCE CENTER
M LOT
STRAUGHN HALL
BUTLER CENTER STEADMAN THEATRE
STADIUM
STRAUGHN DR
ELIOTT HALL
N LOT
STADIUM DRIVE
MEMORIAL HALL
NORTH HALL
DECKER GYMNASIUM
CAMPUS VIEW DR
ALUMNI HALL
THE HUT
SOUTH HALL
MALL
MANSER HALL
I LOT
PICNIC GROVE
COLLEGE AVE
PRESIDENT HOUSE
COLLEGE PLACE
WATER TOWERS
PINECREST MANOR
LAUREL MANOR
Y LOT
X LOT
H LOT
HEMLOCK MANOR
G LOT
MAPLE HALL
UNIVERSITY POLICE
MORRIS DRIVE
V LOT
B LOT
COANE CENTER
TENNIS COURTS
SOUTH ACADEMY ST
ST JAMES ST
FITNESS CENTER
ALUMNI HOUSE
BEECHER HOUSE
CLINTON ST
FIRST ST
CEDARCREST HALL
A LOT
BASEBALL FIELD
SPAULDING FIELD HOCKEY FIELD
&
UPPER DIVISION PARKING
C LOT

Man



Ⓣ Public Telephone (911 service)

Ⓢ Shuttle Stop 8:00 pm to 10:30 pm

Ⓢ Shuttle Stop 8:00 pm to Midnight

PARKING

Ⓥ Visitors

Lower Division Resident Students

Upper Division Resident Students

Commuter Students

Employees (also Straughn Dr, Wilson St, Stadium Dr and Clinton St)

0 50 100
Yards

N
W E
S

rsity Department of Geography and Geology

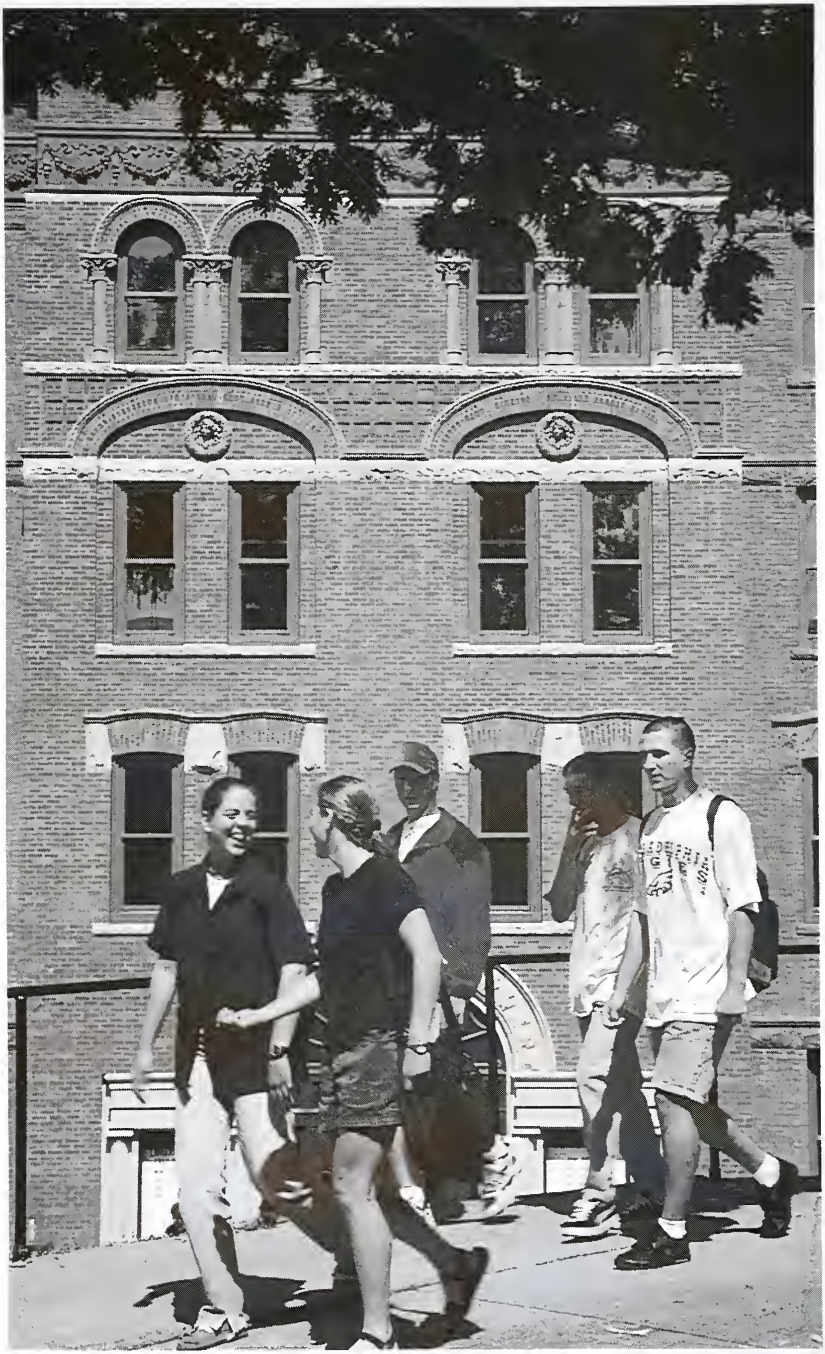
UNIVERSITY CALENDAR

1997-1998

Summer sessions begin		May 19, 1997
Summer sessions end		August 8, 1997
Summer Commencement		August 9, 1997
Fall Semester 1997		
University Meeting Days	Th–F	August 21 - 22
Residence Halls Open for:		
New Students - 9 am	Sa	August 23
Returning Students - 9 am	Su	August 24
Academic Orientation Day	M	August 25
Classes Begin 4 pm	M	August 25
Labor Day: No Classes	M	September 1
FOLLOW MONDAY SCHEDULE	Tu	September 2
Last Day to DROP Classes	T	September 2
Last Day to: ADD Classes	W	September 3
Submit "Credit-By-Exam" form		
Submit "Intent to Graduate" form for May & August 1998		
Submit "Pass/Fail Option" Card		
Submit "Repeat of Course" Card		
Last Day to Turn in "Incomplete" Grades	Tu	September 16
Last Day to Complete "Credit-By-Exam"	Tu	September 23
Mid-Semester Grades Due	M	October 13
Fall Holiday, No classes	M	October 20
Last day to withdraw from a course	F	October 24
Registration for Spring Semester begins	M	November 3
Thanksgiving Holiday - No Classes	W–Fri	November 26 - 28
Last day of Fall Semester classes	F	December 5
Reading Period	Sa–Su	December 6 - 7
Final Examination Period	M–Th	December 8 - 11
Residence Halls Close	F	December 12
Fall Commencement Exercises	Sa	December 13
Fall Semester Grades Due	M	December 15
Academic Review Board	W–Fri	January 7 - 9

Spring Semester 1998

University Meeting Days	Th–F	January 8 - 9
Residence Halls Open	Su	January 11
Classes Begin 8 am	M	January 12
Last Day to DROP Classes	M	January 19
Last Day to: ADD Classes	Tu	January 20
Submit "Credit-By-Exam" form		
Submit "Intent to Graduate" form for December 1998		
Submit "Pass/Fail Option" Card		
Submit "Repeat of Course" Card		
Last Day to Submit "Incomplete" Grades	M	February 2
Last Day to Complete "Credit-By-Exam"	M	February 9
Mid-Semester Grades Due	M	March 2
Spring Holiday - No classes	M–F	March 9 - 13
Last day to withdraw from a course	F	March 20
Registration for Fall Semester Begins	M	April 6
Last day of Spring Semester Classes	F	May 1
Reading Period	Sa–Su	May 2 - 3
Final Examination Period	M–Th	May 4 - 7
Residence Halls Close 10 am	F	May 8
Spring Commencement	Sa	May 9
Spring Semester Grades Due	M	May 11
Academic Review Board	W–F	May 27 - 29



I. INSTITUTIONAL HISTORY AND INFORMATION

HISTORY

Mansfield University was founded in 1857. Four months after the school opened, it burned to the ground. Area residents were so committed to having a college, they immediately rebuilt it. Over the decades, we've gone through five name changes: Mansfield Classical Seminary, State Normal School, State Teacher's College, State College. In 1983 we became Mansfield University, a member of the Pennsylvania State System of Higher Education.

On September 28, 1892, Mansfield made history when our football team played the first night football game in history. The game is re-enacted each year by Alpha Chi Rho during the Fabulous 1890s Weekend.

In 1996 renovations to the historic North Hall were completed. The elegant 19th century Victorian structure now houses one of the world's most state-of-the-art, hi-tech libraries. In 1997, a new sports and fitness center opened, within a short walk from each residence hall.

MU FACTS

The campus consists of 174 acres and 32 buildings; multiple recreation areas, tennis courts, and playing fields; an indoor swimming pool, three auditoriums, a state-of-the-art library, and a new fitness center.

STUDENT ENROLLMENT
2,897 enrolled in the Fall of 1996: 2,503 full-time and 394 part-time; 1,667 female, 1,230 male. Students come from 15 states and 14 foreign countries.

STUDENT-FACULTY RATIO
Average ratio is 16:1. About 80% of our classes have fewer than 30 students; 50% have fewer than 20 students; and only 5% have 50 or more students.

STUDENT FINANCIAL AID
Over 80% of students receive financial assistance in some form. This includes federal, state and institutional grants; a variety of loans and employment.

FACULTY
We have 170 full-time faculty; 30% of these are full professors and over 60% have PhDs or other terminal degrees.

PROGRAMS OF STUDY
We offer 12 two-year associate degree programs, 77 four-year baccalaureate programs in the liberal arts and the professional studies, and 6 masters degree programs. We also offer 42 minors.

SPECIAL OPTIONS
Multiple majors, a self-developed major, honors program, internships, independent study, and individualized instruction.

COLLEGE FINANCIAL DATA:
Physical plant value of $150,438,833 and 1996-1997 operating budget of $36,000,000.

ACCREDITATION
The principal accrediting agencies for Mansfield University undergraduate programs are:
The Middle States Association of Colleges and Secondary Schools
The National Council for Accreditation of Teacher Education
The National Association of Schools of Music
The National Association for Music Therapy
The Council on Social Work Education
The Committee for Allied Health Education
The National League of Nursing
The Pennsylvania Board of Nursing

LOCATION
Mansfield is a borough of 4,000 persons located in the Northern Tier of Pennsylvania at the intersection of U.S. 15 and U.S. 6. We're 50 miles north of Williamsport, PA and 30 miles south of Corning, NY. Driving time from: Harrisburg, PA, 3 hours; Scranton, PA, 2 hours; Buffalo, NY, 3 hours; Binghamton, NY, 2 hours; Philadelphia, PA, 4 hours; Pittsburgh, PA, 5 hours; New York City, 5 hours. Daily bus service, north and south, connects all points in the northeast U.S.

REGION
Year-round outdoor activities are available in the immediate region. Opportunities include hunting, fishing, skiing, camping, hiking, and water sports. Cultural attractions include the Clemens Center of Performing Arts in Elmira, NY, Corning Glass Museum and Rockwell Museum of Western Art in Corning, NY.

CULTURAL ACTIVITIES
We offer a variety of cultural activities during the acadmic year. The annual Northern Appalachian Storytelling Festival brings nationally known storytellers to campus for a three-day series of performances and workshops. The Faculty Lecture and Film Series, Women's Art and Culture Week, and Global Issues Week are traditions at Mansfield. The Fine Arts Series offers a variety of professional music and dramatic performances and monthly art exhibitions, and there are regular recitals by music faculty and students throughout the year. Fiction and poetry readings as well as other cultural activities round out the university's cultural opportunities.

LIBRARY FACILITIES
Mansfield University has one of the newest and most electronically advanced libraries in the United States. The recently renovated five-story North Hall provides an elegant 19th century setting where you can access information from around the world through our computers and links to the Internet.

RESIDENCE HALLS

Five residence halls house about 1,820 students. Housing options include female only, and co-ed halls. We attempt to house freshman together in clusters for special programming needs.

CALENDAR

Our regular academic calendar consists of a fall semester which ends before Christmas and a spring semester ending in early May. We also offer three summer sessions from May through August.

MISSION STATEMENT

Mansfield University is dedicated to providing an environment that promotes academic and personal growth as well as intellectual, ethical, and aesthetic values. The University serves the region and the national and international communities by developing human and material resources. The University is committed to stimulating continuous pursuit of knowledge and understanding by students, staff, and faculty. To accomplish this mission, Mansfield University pledges:

To provide a liberal education for all its students.
To prepare students for full and purposeful lives through undergraduate and graduate instruction in liberal arts and professional programs.
To plan, develop, implement, and measure its efforts in providing optimum learning opportunities for students of a variety of ages, backgrounds, and needs.
To promote affirmative action and equal opportunity.
To maintain a faculty dedicated to teaching and scholarship.
To cooperate with other educational institutions for the achievement of mutual goals.
To provide educational and cultural programs to the general community.
To offer expertise in public service activities.

STATEMENT OF DIVERSITY

Graduates of Mansfield University are expected to participate in a world that has been enriched by knowledge, insights, and traditions of diverse peoples who live and work together. An academic community that values diversity by words and actions provides the best environment in which students can learn the social skills necessary to participate and flourish in our multi-cultural environment.

The Mansfield University Council of Trustees reaffirms the purpose of Mansfield University, as stated by former President Simon B. Elliot in 1912, to "Strive to make education universal; that the rich and the poor, the child of those who have power and place, and of those who tread the lowly paths of life, shall receive alike the blessings of education....and invite equally and alike, without distinction of sex, or color, or race, or creed, or party, the children of all who may desire to participate in the opportunities here offered. That is the highest purpose for which Mansfield may be praised."

II. ADMISSIONS

REQUIREMENTS FOR ADMISSION

To be considered for admission to Mansfield University you must graduate from an approved secondary school or have obtained equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Education. Admission to the University is granted to those applicants who successfully complete college preparatory secondary school work (grades 9-12). Credentials should also include a class rank in the upper three fifths of the graduating class and a satisfactory score on the Scholastic Aptitude Test (SAT) or the American College Testing (ACT).

Recommended Preparatory Course Work

English	4 Credits
History or Social Studies	4 Credits
Laboratory Science (Bio, Chem)	2 Credits
Algebra, Plane Geometry, Algebra 2	3 Credits
Foreign Language	2 Credits
Electives (academic)	6 Credits
Total	21 Credits

APPLICATION PROCEDURES

Contact the Admissions Office to receive an application for admission to the undergraduate programs at Mansfield University. The Admissions Office accepts applications on July 1 following the student's junior year of high school. A complete application should include a $25 non-refundable application fee as well as the following credentials:

1. An official high school transcript (an official copy must bear school seal and signature of an official).
2. An official copy of the Scholastic Aptitude Test (SAT) or American College Test (ACT).

Students who misrepresent, alter, or omit academic credentials prior to enrollment at Mansfield University will have their acceptance revoked. If the misrepresentation, alteration, or omission is discovered after enrollment the student will be charged with violation of the university policy and will be subject to judicial proceedings.

DEADLINES FOR APPLICATION

Mansfield University has a rolling admissions policy. We encourage you to apply early. All applications are considered based upon academic credentials and space availability for the entry date requested. Once we receive all credentials and supporting documents, the Admissions Committee will notify you in a timely fashion.Some scholarships and space in specific academic programs are also awarded on a rolling basis; therefore, it can be advantageous to apply early in the calendar year.

WHEN OFFERED ADMISSION

Applicants offered admission while still enrolled in high school/college are expected to maintain or improve upon the academic scholarship presented when the credentials are initially reviewed. Failure to maintain scholarship, as reflected on final official transcripts (including class rank, grade point average, and course/credits scheduled) may result in revocation of the offer of admission.

When an applicant has been granted admission and fails to enroll, the offer of acceptance is valid for one year from the initial entry date, provided the academic credentials have not dropped in the meantime. After one year the student must reapply for admission as a new applicant and meet the standards for acceptance current at the time of reapplication.

The university reserves the right to establish or change admission standards as it deems necessary.

ADMISSION CATEGORIES

If you meet the minimum qualifications as outlined you will be offered admission to the university as a "regular accept" for the fall semester. Other admissions categories are described below.

DEVELOPMENTAL PROGRAMS

If you show a potential for success in college but do not meet the regular requirements for fall acceptance, you may be considered for one of our developmental programs. You may not have completed the recommended high school course sequence or may require preparatory course work to polish your skills. Your high school credentials may rank below the university's minimum requirements but reveal potential for future success.

Students selected for participation in a developmental program must complete preparatory course work which is based upon diagnostic-placement results and receive tutoring and advising assistance. Upon successful completion of the program, students continue in a matriculated status.

EARLY DECISION

Consideration for an early admission decision for fall entrance is given to candidates who meet prescribed requirements in terms of secondary school achievement and junior year SAT scores. Those offered admission through this program also submit scores from a senior year examination of the SAT. Applicants who qualify for early decision are notified upon receipt of the completed application, application fee, official high school transcript, and junior year SAT/ACT scores.

An advanced deposit must be paid within 30 days of the offer of admission to reserve a space in the incoming class.

EARLY ADMISSION

High school seniors who meet admission requirements and are interested in attending Mansfield University full-time in lieu of attending high school in their senior year, upon final approval and acceptance, are considered freshmen at MU. All policies and procedures applicable to university freshmen apply to them. Candidates for this option are responsible for seeking and receiving permission from their high school administration/ school board to attend MU in lieu of their senior year of studies within high school. It is strongly recommended that candidates secure a written statement of the approval as well as a statement assuring them that, upon successful completion of the freshman year of studies and presentation of an official transcript of scholastic achievement, a high school diploma will be awarded by the high school of origin. Any specific course requirements which must be fulfilled during the freshman year of college studies to satisfy requirements for a high school diploma must be identified by the guidance counselor on the Admissions form.

The candidate must file an application form, submit official high school transcripts, standardized test scores, and letters of recommendation, including a recommendation from the high school guidance counselor. The need to take any developmental course work in the basic skill areas of reading, writing, or mathematics will result in disapproval of the application.

VISITING STUDENT PROGRAM

The Visiting Student Program allows students enrolled full-time at a Pennsylvania State System Higher Education university to enroll at a sister institution for a limited period. Students wishing to enroll at Mansfield University as a visiting student must receive permission from their home university.

The student must have satisfactorily completed at least 27 credits at the home university and be in good academic standing. A maximum of 18 credits may be taken in a single semester and up to 16 credits of summer work as a visiting student.

Applications for visiting student status are submitted to Mansfield University's Academic Records Office for approval. The completed visiting student application (available from the home institution) provides verification of good academic standing. No further credentials are required for admission into the visiting student program at Mansfield University. An application fee of $25 is required.

The visiting student should request that a Mansfield University transcript be forwarded to the home campus after courses have been completed. Mansfield University assigns credit and grades in accordance with its own polices and procedures.

SPECIAL ART/MUSIC PROGRAM REQUIREMENTS

Applicants for an art degree must satisfy general college admissions requirements and present a portfolio of work to the Art Department for evaluation prior to formal acceptance into an art program. For further information contact the Art Department (717) 662-4500.

Applicants for a music degree, having satisfied the requirements for general college admission, must audition for acceptance into the music department. Acceptance is based upon a demonstration of both musical aptitude and musical accomplishment. For further information contact the Music Department (717) 662-4710.

TRANSFER ADMISSION

Students are normally eligible for transfer admission if they have attained an overall 2.0 cumulative quality point average (QPA) at an accredited post-secondary institution. Exceptions are as follows: Nursing, 2.5 QPA; Education, 2.5 QPA. Credit is awarded for college level courses completed in accredited colleges/universities. "Accredited" is defined to include accreditation by any of the seven regional accrediting bodies only, e.g. Middle States for this region. Credits presented from non-accredited colleges or universities are not eligible for transfer consideration.

Contact the Office of Admissions for a transfer application. Transfer students submit the application along with official transcript(s) from all post-secondary institutions previously attended. All information is sent to the Coordinator of Transfer and Articulation in the Admissions Office. Mansfield University has a rolling admissions policy. All interested applicants are encouraged to apply early. Applications will be considered based upon academic credentials and space availability for the entry date requested.

Applicants who have earned fewer than 32 credits in college level work are required to submit an official high school transcript and an official record of the SAT or ACT. The

SAT or ACT scores are not required if the applicant is 21 years or older or has been out of high school for three or more years.

Students approved for transfer to MU and enrolled at another institution are granted admission on a provisional basis until all records from the previous institution have been reviewed and finalized.

TRANSFER EVALUATION

Following acceptance into the university, an evaluation of courses taken at previous institutions is made by the Transfer Coordinator in consultation with the chairperson of the student's major department.

Credits are evaluated on a course-by-course basis. General Education requirements are not automatically met. Any exceptions to this policy are specified in transfer articulation agreements between Mansfield and many two-year institutions. Presently, agreements exist with Corning Community College, Harrisburg Area Community College, Keystone College, Lackawanna Junior College, Lehigh-Carbon Community College, Luzerne County Community College, Pennsylvania College of Technology, and Reading Area Community College.

Courses for which a "C-" grade or better has been earned are considered for transfer credit to Mansfield University unless the student has earned an associate or bachelor's degree from an accredited two or four year college/university. Consistent with this policy, credit will only be awarded for those courses with transcript notations such as "Pass", "Credit by Examination", and "Satisfactory" when a grade of "C-" or better is required for the award of such grade. No grades or quality point average (QPA) transfer from a previous institution.

The number of credit hours that transfer from another institution cannot be more than the number awarded for completion of course work at that college/university. For example, some institutions do not give credit for physical education courses. A student accepted from such an institution is considered to have met the physical education requirement at Mansfield for as many PE courses as taken previously, but no credit would be awarded. Similarly, Introductory Biology might carry three credits at another institution and three credits would be given in transfer for such course even though the equivalent biology at Mansfield is four credits. Furthermore, if a U.S. History course is four credits at another institution, four credits would be given in transfer even though U.S. History at MU is a three credit course.

Because of the time sequence necessary for the development of skills required by the music curriculum, students are advised to transfer as early as possible. Otherwise, it becomes increasingly difficult to complete the curriculum within the normal four-year span of time. Credits in the music area must be validated by examination before they are accepted for transfer. This is to insure that the student is capable of successfully completing the remaining required courses.

MAXIMUM HOURS ACCEPTED IN TRANSFER

Mansfield University does not accept more that 67 semester hours of course work in transfer from accredited two-year colleges. There is no limit on credits accepted from a four-year accredited college/university; however, fifty percent of major related courses must be completed at Mansfield University.

ACADEMIC DISMISSAL POLICY FOR TRANSFER STUDENTS

Transfer students are subject to academic dismissal after their first semester only if their QPA is less than 1.00. After they have completed two semesters at Mansfield, transfer

students are subject to the same minimum academic requirements of the university as other students, and this is based upon the total number of Mansfield and transfer credits attempted.

READMISSION OF FORMER STUDENTS

Any degree-seeking student who has not been in attendance during the previous semester must apply for readmission to the university. Lifelong learners and inservice teachers not seeking a degree or program certification do not need to reapply.

An applicant for readmission should request an application from the Admissions Office and return it with the admission fee. This fee is waived for students readmitted after a break of no more than two semesters. A statement about activities, including such information as employment, college course work completed, military service, etc. should accompany the application.

Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission. Before students are readmitted, they must clear all outstanding university-related debts.

PRINCIPLES OF ENROLLMENT MANAGEMENT

Mansfield University endorses enrollment management principles and reserves the right to limit the total number of freshmen, transfer, and readmission students within specific degree programs as well as the total entering class each entry date. Official entry dates occur in the summer, fall, and spring each academic year. You may be offered admission to a waiting list based upon these principles. Assignment of confirmed spaces is made after a comprehensive review of academic credentials.

SUMMER SCHOOL

The Summer School program at Mansfield University is designed to meet the needs of a variety of students. A wide range of educational opportunities include credit courses for undergraduates, lifelong learners, and graduate students as well as workshops, travel credit courses, and seminars in the liberal arts, teacher education, and other fields of study.

Summer sessions are open to all students who have earned a high school diploma or GED, but enrollment does not imply or guarantee admission or readmission to Mansfield University.

Continuing university students, including new students, who wish to accelerate their program of study will find both general education and other courses in a variety of fields of study. Students from other colleges and universities may take courses at Mansfield University. However, they are advised to first ensure that their home institution will transfer credits earned.

Teachers and graduate students will find courses in the summer program to serve a variety of needs. They may enroll to complete requirements for permanent certification, take refresher courses in their field of specialization, or for the purpose of extending their certification to a new field.

The Summer Session bulletin is usually available after March 1.

CENTER FOR LIFELONG LEARNING

The Center for Lifelong Learning provides educational opportunities both on-campus and at a variety of locations off-campus to high school students and non-traditional students including employed adults and professionals. The Center for Lifelong Learning is

responsible for off-campus undergraduate and graduate courses and programs including all distance education course offerings, the Adult Basic Education/GED Programs, the College Bound Program, and non-credit programs including workshops, camps and conferences.

LIFELONG LEARNERS

If you are a high school graduate or hold a General Education Development (GED) certificate you may choose this alternative route to take course work through the university without formally applying to the university and without taking the SAT or ACT tests.

Approval to take course work as a lifelong learner does not imply or guarantee admission to the university or acceptance in a degree program, but it does offer flexible educational experiences for nontraditional students. This program enables individuals to enrich themselves, improve a particular skill for current or future employment, try college courses to see if they want to pursue a degree, or transfer credit to another institution.

You need to provide evidence of high school graduation by providing an official transcript of high school work or a satisfactory score from the GED within the first semester or summer session of enrollment. Students who have attended a post-secondary school are also requested to provide an official transcript from each institution. The Director of the Center for Lifelong Learning can make an exception for non-matriculating adults who are auditing or are enrolled in course work for personal enrichment.

You may earn up to 30 credit hours, exclusive of developmental (090) course work, and then apply these credits toward a degree program at Mansfield University. You may schedule up to a maximum of 11 credit hours during each academic semester of attendance.

We provide academic advising and strongly encourage you to get course work advisement before registering for classes. An advisor can help you make specific academic plans, make an informal evaluation of transfer credit if you have previous college work, and help you select courses as well as a program of study. For further information, call the Center for Lifelong Learning at (717)662-4244 or (800)661-3640.

Lifelong learners are required to meet the university's minimum academic requirements. Students who fail to meet those requirements at the end of a semester may be administratively disqualified and denied future enrollment at the discretion of the Provost or his designee.

If you are not a U.S. citizen you must provide a current, valid visa and a TOEFL score (500 minimum) or demonstrate English proficiency.

DISTANCE EDUCATION

We deliver undergraduate and graduate course work, workshops, career exploration opportunities, in-service programs and other educational programming through distance education technologies. Butler Center is equipped with videoconferencing equipment which allows for simultaneous interaction between two or more sites and the transmission of voice, data, and video. The videoconferencing system delivers the best audio and video quality available on the market. Course work may be taken by students while in high school, by adults who plan to pursue a degree, by graduate students for in-service or graduate credits, and individuals who are seeking innovative and creative course offerings for enrichment.

All academic course work offered through this technology meets academic departmental standards and earns Mansfield University credits. It may be used by full-time students who wish to engage in course work offered at a more convenient time and

location. Other technologies including E-mail, audioconferencing or audiographics, are used either as a separate delivery system or in conjunction with the videoconferencing technology. This technology affords the opportunity for students who are geographically remote to enroll in university courses and programs from accessible locations and at convenient times.

COLLEGE BOUND PROGRAM

Our College Bound Program is for serious high school learners who know they will go to college, want to explore their potential for college work, or who want to study subjects not normally available in high school.

The College Bound Program provides opportunities on-campus, off-campus, and via distance education technologies for outstanding high school students to develop their academic potential by pursuing college course work. Students who participate in this program take liberal arts and/or science courses accepted at most colleges/universities in the United States.

All academic courses meet departmental standards and earn Mansfield University credits. Students seeking approval to take course work through the College Bound Program must demonstrate potential for success at the college level.

Applicants must be recommended by their high school guidance counselor and demonstrate the ability to think critically and analytically. In recommending students for the College Bound Program, high school guidance counselors should use, but are not limited to the following guidelines: students who have pursued an academic curriculum in grades 9-12 and have demonstrated mastery of writing, mathematics, reading, and study skills. College Bound applicants must also demonstrate maturity and social skills appropriate for success in college course work. Students who meet the requirements for the College Bound Program are approved to pursue course work under the category of a lifelong learner and are not admitted as matriculated students to the University.

An approved College Bound candidate is not typically eligible for financial aid. However, students approved to take course work as a College Bound Student have their application fee waived. If you are taking course work as a College Bound student through distance education, the course offering will be made available with the latest video-conferencing technology. You will see and hear your professor live on a screen in your own high school or local videoconferencing facility. You can ask questions, take part in discussions, participate with the professor and students in a Mansfield University classroom.

Students interested in the College Bound Program must submit a College Bound Course Registration/Application. You can get this application by writing to Center for Lifelong Learning, 209 Doane Center, Mansfield University, Mansfield, PA 16933; by calling us at (717)662-4244 or (800)661-3640; or by sending a fax to 717-662-4120.

SENIOR CITIZENS PROGRAM

We offer a tuition waiver to senior citizens who are receiving Social Security retirement and are at least 62 years of age (or minimum age as defined by the Federal Social Security Administration). You may register for courses offered in the fall, spring, and summer sessions. You may either audit the class or take the class for credit. You will need to complete a Senior Citizen Tuition Waiver form at the Revenue Office requiring proof of benefits (copy of monthly check or statement from the Social Security Office). Since only tuition is waived, you are charged miscellaneous fees associated with the number of credits requested. For more information about this program, contact the Center for Lifelong Learning at (717)662-4244 or (800)661-3640.

III. EXPENSES

ADMISSION FEES (NON-REFUNDABLE)

Application Fee $ 25

Students applying for admission or readmission pay this fee when submitting their application.

Advance Deposit $170

Required upon acceptance of the offer of admission. It is transferrable to a revised admission date within one year upon the approval of the Director of Admissions.

TUITION - PER SEMESTER

	Residents of Pennsylvania	Residents of Other States
FULL-TIME UNDERGRADUATE 12-18 credits	$1734	$4412
FULL-TIME GRADUATE 9-15 credits	$1734	$3118
PART-TIME UNDERGRADUATE under 12 credits over 18 credits	$144 per credit	$368 per credit
PART-TIME GRADUATE under 9 credits over 15 credits	$193 per credit	$346 per credit

Notes:

Students taking a combination of undergraduate & graduate credits are charged at the course level and will not be combined for the full time basic fee rate.

Audit fee: students and residents of the region may audit a course for $50 and permission of the instructor.

Senior citizen tuition waiver: residents of the region aged 62 or over may enroll in university courses with no tuition charge.

Summer sessions tuition is charged at the current per credit rate.

HOUSING/FOOD SERVICE FEES

RESIDENCE HALL STUDENTS

Double Room	$1040
Private Room	$1560
Mini-Single	$1300
Double plus 19 meals	$1852
Double plus 14 meals	$1847

Requests for a private room are processed by the Housing Office, 120 Pinecrest and are granted on a space available basis. Payment does not guarantee a private room.

COMMUTER AND OFF-CAMPUS STUDENTS

19 meals ($ 50. flex)	$812
14 meals ($100. flex)	$807
10 meals ($ 50. flex)	$656
5 meals ($ 50. flex)	$463
Flex Only	$100

Flex dollars are built in to each meal plan and may be used as cash at any dining location. You can buy additional flex dollars in increments of $25. Unused flex dollars are carried over from fall to spring semester. Unused flex dollars at the close of the spring semester are forfeited.

Room rates include telephone service (does not include toll charges). Linens and pillows are not provided.

All residence hall students must use dining services. Dining fees are assessed regardless of whether or not dining services are actually used.

All new residence hall students are automatically charged with the 14 meal plan. Requests to change to the 19 meal plan must be made by August 1. Changes to original dining selections are not permitted after the semester begins.

Dining exemption forms for medical reasons are available at the Office of the Vice President for Student Affairs and must be initiated before the beginning of a semester. Dining charges are assessed until approval for an exemption is granted.

All degree-seeking students are required to live on campus unless they are commuting from home. Approval to move out of the residence halls must be obtained from the Director of Residence Life, 120 Pinecrest.

STUDENT UNION BUILDING FEE

Paid by all students to support the operating costs and debt service for the student union building.

Undergraduate	
1 to 6 credits	$11.25
7 to 9 credits	$22.50
10 or more credits	$45
Graduate	
1 to 6 credits	$11.25
7 to 8 credits	$22.50
9 or more credits	$45

EDUCATION FEE

Paid by all students to support high-cost programs, labs, equipment, etc.

	Residents of Pennsylvania	Residents of Other States
Full-time Undergraduate	$173	$173
*Part-time per credit	$ 15	$ 37
Full-time Graduate	$173	$173
*Part-time per credit	$ 20	$ 35

*Per credit rate not to exceed full-time rate per semester.

HEALTH FEE

Primary medical care is provided to registered full-time and part-time students while the university is in session.

Undergraduate	
7 to 11 credits	$12.50
12 credits and over	$25
Graduate (optional)	
7-8 credits	$12.50
9 credits and over	$25

FITNESS CENTER FEE

All undergraduate, degree-seeking students are assessed this fee. The student body approved the fee in Spring of 1995 to support the construction and operating costs of the center.

Undergraduate		Graduate (optional)	
1 to 6 credits	$25	1 to 6 credits	$25
7 to 11 credits	$50	7 to 8 credits	$50
12 credits and over	$100	9 credits & over	$100

STUDENT ACTIVITY FEE

This fee was established by the Student Government to support student activities.

Undergraduate		Graduate (optional)	
7 to 11 credits	$50	6 to 8 credits	$50
12 credits and over	$100	9 credits & over	$100

RECREATION/ATHLETIC FEE

A one time fee paid by all first time degree-seeking students to support recreation and intercollegiate athletic programs. $50

OTHER FEES

DIPLOMA FEE

Each candidate for a degree is assessed this fee. $20

GRADUATE DEGREE CANDIDACY FEE

This fee must be paid upon application for admission to degree candidacy. $10

DEFERRED PAYMENT FEE
Students may defer payment for up to one half of the balance due for six weeks after confirmation. The balance due is defined as the total fees for the current semester, minus approved financial aid. Non-payment of the full balance due incurs the $25 fee. $25

RETURNED CHECK FEE
This fee is charged for each check returned by the bank. $25

CERTIFICATION FEE
Teaching certification applications are processed by the Academic Records Office $15

CREDIT BY EXAMINATION FEE
One third of the undergraduate fee per credit must be paid and approval received from the Provost before taking the examination. (per exam)

TELEPHONE FEE
This fee is assessed to reconnect long-distance phone privileges or acquire a new access code. $10

PARKING DECAL FEE
This fee is for a permit valid from September through August. $5

TRANSCRIPT FEE
There is no charge for transcripts. All delinquent financial obligation must be cleared prior to the release of transcripts.

EXAM/TEST FEES
Contact Career Development and Placement Services for information about the following tests and fees: Miller Analogies Test; National Teachers Exam (NTE); Graduate Record Exam (GRE); Scholastic Aptitude Test (SAT). Information regarding the College Level Examination Program (CLEP) may be obtained from the Admissions Office.

REFUNDS & ADJUSTMENTS OF CHARGES
The following information is subject to change without notice and applies only to degree-seeking students who withdraw from the university.

Students attending the university for the first time who withdraw have their accounts adjusted according to the TEN WEEK refund schedule. Returning students who withdraw have their accounts adjusted according to the EIGHT WEEK refund schedule. These accounts include tuition, housing and miscellaneous fees. Dining adjustments are pro-rated on a weekly basis.

	Returning Student	First Time Student
First day of class	100%	100%
First week	90%	90%
Second week	90%	80%
Third week	50%	80%
Fourth week	50%	70%
Fifth week	25%	60%
Sixth week	25%	60%

Seventh week	25%	50%
Eighth week	25%	50%
Ninth week	No Refund	40%
Tenth week	No Refund	30%
Eleventh week and beyond	No Refund	No Refund

Please refer to summer catalog for summer session refund schedules.

Tuition and miscellaneous fees are adjusted at 100% through the drop period. There is no fee adjustment for course withdrawals. All requests for refunds should be in writing to the Revenue Office.

Non Degree-seeking Students

In order to receive a financial adjustment, classes must be dropped during the drop period.

CONFIRMATION

Just before a semester begins, we check to see if you have met all financial obligations. If you have any outstanding payments still due, this confirmation process could result in your name being automatically dropped from the classes for which you registered. To avoid this, it is important to clear payments by the appropriate date.

DELINQUENT ACCOUNTS

You are not permitted to enroll for course work or to receive a diploma or transcripts until all overdue accounts have been paid. Delinquent accounts are turned over to a collection agency and all applicable collection costs passed on to the student.

Students requesting transcripts are encouraged to pay any outstanding balance by money order or cashier's check to avoid a two-week clearing period on personal checks.

RESIDENCY

As a student, you are classified as a Pennsylvania resident for tuition purposes if you have a Pennsylvania domicile.

Domicile is the place where you intend to and do permanently reside. Because the determination of whether you intend to reside indefinitely in Pennsylvania is subjective, documentary evidence, statements from disinterested persons, and the presumptions set forth below are considered:

a) Continuous residence in Pennsylvania for a period of 12 months prior to registration as a student at an institution of higher education in Pennsylvania creates a presumption of domicile. A student is presumed not to be a domiciliary if he/she has resided for a shorter period before attending an institution of higher education, but the student may rebut this presumption by clear and convincing evidence.

b) Students who are not United States citizens and have nonimmigrant visas or lack a visa are presumed not to be domiciled in Pennsylvania, but they may rebut this presumption by clear and convincing evidence.

c) A minor is presumed to have the domicile of his or her parents or guardian. The age of majority for establishing a domicile for tuition purposes is 22. However, a minor may prove financial emancipation and thereby prove Pennsylvania domicile through clear and convincing evidence.

d) A United States government employee or a member of the armed forces who was domiciled in Pennsylvania immediately preceding entry into government service

and who has continuously maintained Pennsylvania as his or her declared legal residence shall be presumed to have a Pennsylvania domicile. Nonresidents stationed in Pennsylvania for military service shall be deemed Pennsylvania domiciliaries.

e) A student receiving a scholarship, loan or grant, dependent upon maintaining domicile in a state other than Pennsylvania is presumed to be domiciled in the state from which he/she is receiving financial aid.

A student may challenge his/her residence classification by submitting a written appeal to the Controller. If the student is not satisfied, the decision may be appealed in writing to the Office of the Chancellor, State System of Higher Education, within 30 days. The decision of the Chancellor is considered final. The effective date of any reclassification resulting from the student's challenge is determined by the Controller based on when the petition was filed. A student who changes domicile from Pennsylvania to another state must promptly give written notice to the University.

IV. FINANCIAL AID

The Financial Planning and Financial Aid Office staff provides information and assists students and their families in meeting college expenses. We attempt to inform students of application procedures and deadlines, types of aid available, eligibility requirements, and other pertinent data.

As a state university, our tuition is substantially lower than many other colleges. However, the combination of college expenses still requires financial aid for many students. While we help in any way we can, the basic financial responsibility for a college education continues to rest with the student and his/her family.

Matriculation at Mansfield University is by semester. As a student you are expected to meet the expenses of the upcoming term without assistance unless such aid has been previously arranged and confirmed. Mansfield University participates in the major federal and state financial aid programs. There are three forms of aid: grants, loans, and college work study (part-time employment). Grants include the Federal Pell grants, the state PHEAA grants, the Federal Supplemental Educational Opportunity Grant, as well as institutional and private grants. Loans include the Federal Stafford Loans, the Perkins loans, and the Plus Loan for parents of students. College work-study (part-time jobs) is funded by federal and institutional dollars and is awarded to students with demonstrated financial need.

We emphasize the following points:

1. File for financial aid immediately upon confirmed admission to Mansfield University.
2. To apply for aid, file the Free Application For Student Aid (FAFSA) and the institutional application. The filing of these two documents constitutes a completed application for all available types of aid with the exception of the Federal Stafford Loan application which may be obtained from your hometown bank.
3. The important deadlines for federal aid are April 1 for fall semester and November 1 for spring semester. PHEAA has a deadline date of May 1 for the state grant program.
4. Identify Mansfield University (003324) as an institution of choice on the FAFSA application. If you don't do this, we won't get your financial analysis and we will be unable to process any aid.
5. You are considered a sophomore with 30-59 credits, a junior with 60-89 credits and a senior with 90 or more credits. This is important for Federal Stafford Loan purposes.
6. Refer to the Financial Aid brochure for details on financial aid programs, deadline dates, and other particulars.

Students and parents may call the Financial Planning Office at (717) 662-4878 with questions at any time. We are here to help you.

ACADEMIC PROGRESS

To continue receiving financial aid in any of the Title IV (federal) programs, federal regulations require that you make academic progress. The Title IV programs include College Work Study, Perkins Loan (formerly National Direct Student Loan), Supplemental Education Opportunity Grant, Pell Grant, and Stafford Loan (Guaranteed Student Loan). In addition, state grants also must be reviewed under academic progress guidelines.

In order to be making "satisfactory progress," full-time students must pass at least 24 credits per academic year. Records will be monitored each year at the end of the fall and spring semesters. If at the end of the fall semester you do not pass at least 12 credits, you must schedule an appropriate number of credits over 12 in the spring semester to meet

the satisfactory progress guidelines. If at the end of the spring semester you have not passed 24 credits, you will be notified that you will not be eligible for the following academic year or until the deficiency has been corrected. You may enroll for credits during the summer, and those credits can be totaled with prior credits to satisfy the academic progress requirement. If aid is terminated for one semester, it will reinstated for the following semester after the 24-credit requirement has been fulfilled. Special students are not eligible for any financial aid.

Repeating credits already passed does not count towards the 24 credits. If you register for 12 credits in the fall and receive a "D" grade in a 3-credit course and again schedule 12 credits for the spring semester and repeat the "D" grade, you are credited with only 21 credits toward progress.

Any student who passes only 24 credits per academic year will not be able to graduate in 4 years or 8 semesters. In fact, if you complete 24 credits per academic year on a consistent basis you will need at least 5 years to complete your degree.

Students in a four year undergraduate program are able to receive financial aid for up to six years which represents 150% of the published length of the educational program. For Satisfactory Progress purposes a year will consist of all semesters (Fall, Spring and Summer) offered during that particular academic period.

Students in a two year program and graduate students will receive aid on a pro-rated basis based upon the particular length of that program, but under no circumstance will financial aid eligibility extend beyond the 150% limit.

MINIMUM ACADEMIC REQUIREMENTS

You are allowed to retain financial assistance provided you meet the QPA requirements. In addition to the 24-credit requirement, you must maintain the necessary quality point average (QPA) as outlined below:

0-18	credit hours attempted	1.00 QPA
19-37	credit hours attempted	1.60 QPA
38-56	credit hours attempted	1.80 QPA
57+	credit hours attempted	2.00 QPA

Students who received Title IV aid for the first time for an award year beginning on or after July 1, 1987, must have at the end of their second academic year an average which is the equivalent of a "C" average consistent with graduation requirements. For example, students who attempt 55 credits must have a QPA of 1.80 or they will lose aid until a satisfactory QPA is obtained.

If you have been out of school for one full year, you will be deemed to be making satisfactory progress for financial aid purposes.

VETERANS BENEFITS

Eligible students may qualify for Veterans Educational Benefits as well as financial aid. The application procedure for financial aid is the same as that outlined for any regular student. Students may qualify for Veterans Educational Benefits through several different programs run by the Veterans Administration. These forms are available through the Veterans Certifying Official, on campus, Room 104, Alumni Hall. In addition, PA Veterans who are honorably discharged may be eligible for a PHEAA Grant for up to 80% of their annual tuition.

FEDERAL GRANT PROGRAMS

Federal Pell Grants. Pell Grants are available to undergraduate students who meet the need based eligibility criteria. To apply for a Federal Pell Grant, complete a Free

Application for Federal Student Aid (FAFSA), available from high school guidance offices, the Financial Planning Office and the Financial Aid Office. Procedures and deadlines are in the form's instructions. Within six weeks you will receive notification of eligibility.

Federal Supplemental Educational Opportunity Grant (FSEOG). This program is for undergraduate students with exceptional financial need who qualify for a Pell Grant. To be eligible, undergraduates must be enrolled at least half time (6 credits). SEOG Grants at Mansfield normally range from $400 to $1000 per academic year. Campus Aid Applications are available from both the Financial Planning Office and the Financial Aid Office. Application deadlines are April 1 for the fall semester, November 1 for the spring semester.

STATE GRANT PROGRAMS

The Pennsylvania Higher Education Assistance Agency (PHEAA) provides State Grants (PHEAA Grants) to help Pennsylvania residents with financial need attend approved institutions of higher education. PHEAA Grants are available to both full- and part-time students.

Grant recipients are expected to work during the summer to assist in meeting expenses and parents are expected to contribute according to their ability. Grant size depends upon educational expenses, family size, and family resources.

PHEAA Grants are subject to annual review and may change from year to year. Renewal depends upon satisfactory academic standing, continued financial need, and the availability of funds. Applications for PHEAA (again the Free Application for Federal Student Aid) may be obtained from high school guidance officers, the Financial Planning Office or the Financial Aid Office. The application deadline is May 1.

STUDENT EMPLOYMENT PROGRAMS

Federal Work Study Program (FWS). This program provides jobs for students with financial need who earn a part of their educational expenses. Students are eligible if enrolled at least half time (6 credits). Applications are available from the Financial Aid Office. Deadlines are April 1 for the fall semester, and November 1 for the spring semester.

Mansfield University Employment Program. This program differs from the Federal Work Study Program in that students do not have to demonstrate financial need in order to qualify. Applications are available from either the Financial Planning Office or the Financial Aid Office, and the deadlines are April 1 for the fall semester and November 1 for the spring semester.

LOAN PROGRAMS

Federal Perkins Loans. This program is for students who are enrolled at least half time (6 credits) and need a loan to meet their educational expenses.

Maximum loans are $3,000 for undergraduate students and $5,000 per year for graduate students. Because of limited funds, the average loan approved for Mansfield students is $800-$1,200 per academic year. Repayment begins nine months after leaving school with up to 10 years to repay. During the repayment period, five percent interest is charged on the unpaid balance of the principle. Applications are available from either the Financial Planning Office or the Financial Aid Office. Application deadlines are April 1 for the fall semester, November 1 for the spring semester.

Federal Stafford Loan Program. This subsidized program enables needy students to borrow directly from a bank, credit union, or other participating lender. The loan is guaranteed by the state or a private non-profit agency, and insured by the federal government.

To be eligible, you must be enrolled at least half time (6 credits) and meet financial need requirements. In Pennsylvania, the maximum loan for an undergraduate ranges from $2,625 to $5,500 a year. Total loans may not exceed $23,000 for dependent undergraduates and $46,000 for independent undergraduates. The variable interest rate may not exceed 8.25%.

Repayment normally begins six months after leaving school with up to 10 years to repay. The size of repayments depends upon the size of the debt and ability to pay. In most cases repayment must be at least $600 a year unless circumstances agreed upon by the lending institution warrant a lesser amount.

Additional information and applications are available from participating lending institutions in your community.

Federal Unsubsidized Loan Program. This loan is similar to the Federal Stafford Loan program; however, you do not need to have a demonstrated financial need and interest must be paid quarterly while the student is in school.

Parent Loan for Undergraduate Students (PLUS). This program allows parents to borrow directly from a bank, credit union, or other participating lender for their undergraduate child. A parent can borrow the difference between the cost of education minus any other financial aid received. The parent usually begins repayment of interest and principle within 60 days of loan disbursement. The variable interest rate may not exceed 9.0%.

Alternate Funding Source: Resource Loan: Additional funding source over and above funds available through the Federal Stafford Loan. Students must have a credit worthy co-signer and be eligible for at least $1,000 in funds. Payback on loan begins after graduation. Information is available from either the Financial Planning or Financial Aid Office.

FINANCIAL AID AWARDS AND GRANTS

Approved Title IV aid is paid on account approximately six weeks from the first day of the semester. Aid awarded after the first day will be paid monthly thereafter. Loan checks are credited upon endorsement or when funds are electronically received.

REFUND ALLOCATION POLICY

The University must return Title IV aid to the various programs in the following order when a student withdraws from the University after having received financial aid in excess of adjusted charges.

1) Federal Unsubsidized Stafford Loan
2) Federal Subsidized Stafford Loan
3) Federal Plus Loan
4) Federal Perkins Loan
5) Federal Pell Grant
6) Federal SEOG

Refunds allocated to a particular program will not exceed the aid originally awarded to a student in that particular program.

INSTITUTIONAL AID PRIORITY POLICY

Mansfield University applies financial aid to cover institutional charges in the following order:

1) Scholarships (including Athletic Grants)
2) State Grants
3) Federal Scholarship (Robert Byrd Scholarship)
4) Federal Pell Grant
5) Federal SEOG Grant
6) Tuition/Fee Waivers (Not to include R.A. or room job positions where students are receiving payment for different services performed for the university.)
7) Federal Perkins Loan
8) Federal Stafford Loan
9) Federal Unsubsidized Stafford Loan
10) Federal PLUS Loan

A release form must be signed to authorize the University to apply Title IV funds to charges beyond tuition and fees. The release may be rescinded at any time by submitting a written request to the Revenue Office. Rescinded authorizations are not retroactive.

Mansfield University Scholarships and Awards

THE AFSCME SCHOLARSHIP: The American Federation of State, County, and Municipal Employees Scholarship is supported by grants from the local unit of AFSCME and the Mansfield University Foundation, Inc. The award is $1000 per academic year. Non-renewable. You must be full-time, matriculated, have completed 12 S.H. with a 2.5 GPA and have financial need. Preference is given to a local 2363 bargaining unit employee, dependent or spouse. The recipient is selected by the Scholarship Committee.

THE ALL RESIDENCE HALL COUNCIL SCHOLARSHIP: The All Residence Hall Council Scholarships are supported by grants from the All Residence Hall Council and the Mansfield University Foundation, Inc. The amount of each award is $500 (2) for the academic year. Non-renewable. The award is given to a student currently enrolled at Mansfield University. The recipient is selected by the Scholarship Committee.

AMERICAN CHEMICAL SOCIETY, CORNING SECTION STUDENT AWARD: Recognition on a plaque located in Grant Science Center to a graduating senior of high academic achievement.

AMERICAN INSTITUTE OF CHEMISTS STUDENT AWARD: A one-year associate membership in American Institute of Chemists and recognition on a plaque in Grant Science Center to a graduating senior of high academic achievement.

THE APSCUF SCHOLARSHIPS: A package of four scholarships totaling $3500 which are supported by grants from the local chapter of Association of Pennsylvania State College and University Faculty and the Mansfield University Foundation. These awards are for both freshman and upperclassmen, and have varied awarding criteria for each.

JANICE BAKER AWARD: A $100 award given in memory of Janice Baker, an outstanding female voice graduate of Mansfield University. The recipient is chosen by the voice faculty in the Music Department.

THE BARTELL SCHOLARSHIP: The Rhoda Bartell Music Award is a $500 award to an entering student with a double-reed major. You must be full-time and maintain 2.5 QPA Non-renewable. Selected by Music Department Scholarship Committee upon the recommendation of the double-reed professor.

THE BAUMAN-STAHLEY SCHOLARSHIP: The Bauman-Stahley Scholarship is supported by the income from a trust fund created by Marguerite Bauman '35 and Margaret B. Stahley. The award is $250 per academic year. Non-renewable. General Scholarship Guidelines are used to select the recipient.

JOHN BAYNES STRING SCHOLARSHIP: Given in honor of Dr. John H. Baynes, former chairman of the Music Department, to an outstanding string major. The recipient is chosen by the string faculty.

BIOLOGY OUTSTANDING MAJOR AWARD: The Commonwealth of Pennsylvania University Biologists annually recognize the most outstanding biology major from Mansfield University at its annual meeting held on the campus of one of the 14 S.S.H.E. Universities. The award includes a trip to the annual meeting, the presentation of the personal certification at the meeting banquet, and a certificate for display in Grant Science Center.

THE BLOSSBURG NATIONAL BANK SCHOLARSHIP: The Blossburg Bank Scholarships are supported by the income from a trust fund created by that bank. Two $400/year

awards are given to students of North Penn High School who attend Mansfield University. The applications are reviewed by a faculty committee at North Penn. That committee's recommendations are forwarded to the Scholarship Committee. It is intended that the awards will be renewed for each student's four college years.

THE BOARD OF GOVERNORS SCHOLARSHIP: The Board of Governors Scholarships were created by the State System of Higher Education. A number of awards granting a waiver of tuition are awarded after all other forms of aid have been received for the academic year. These scholarships may be renewed for four years if the student maintains the required grade point average. The Board of Governors Scholarship guidelines are used to select recipients.

THE BONE SCHOLARSHIP: The Dr. Margaretta Bone Scholarship is supported by income from a trust fund created by Dr. Margaretta Bone. The award is $1000 to a freshman, and is renewable for three more years. The Education Department makes recommendations for this award to the Scholarship Committee.

BROADCASTING AWARD: One award from the New York Academy of Television Arts and Sciences.

THE COLEGROVE SCHOLARSHIPS: The Colegrove Scholarships are supported by the income from a trust fund created by H.W. Colegrove. Two $750/year grants are given to women students who are residents of Tioga County, PA. This scholarship is awarded for each of the student's four years. General Scholarship Guidelines are used to select the recipient.

THE CRISPELL SCHOLARSHIP: The Albert Crispell Scholarship is a $175 award supported by the family of Albert Crispell and the Mansfield Foundation for an upcoming senior Elementary Education major from Bucks, Luzerne or Wyoming Counties. A committee of Education Faculty reviews applications and forwards a recommendation to the Scholarship Committee. The award is paid directly to the Campus Bookstore to help offset book and supply expenses. Non-renewable.

COLLEGE COMMUNITY SERVICES, INC. BOOK SCHOLARSHIPS: Four $250 scholarships are provided in the form of credit for books at the bookstore. Students must be full-time, have financial need, 2.8 QPA, and be involved in extra-curricular activities.

THE DARRIN SCHOLARSHIP: The Charles V. Darrin Scholarship, in memory of David D. Dye, is funded by the income from a trust created by Dr. Darrin '34. The award is $500 per academic year and is given to a student accepted as a music major. Non-renewable. General Scholarship Guidelines are used to select the recipient.

THE DEAN SCHOLARSHIP: The Hartley B. Dean Scholarships of $1000 are funded by the income from a trust created by Hartley B. Dean '18. Renewable. The Hartley B. Dean Scholarship Guidelines are used to implement the awards.

THE DAVID J. DICK MEMORIAL AWARD: A $750 award to an outstanding junior or senior of outstanding conducting or vocal performance. Non-renewable. Selected by the Music Department Scholarship Committee.

MANSFIELD UNIVERSITY DINING SERVICES SCHOLARSHIPS: Two full meal plan scholarships for the academic year are awarded. Students must be full-time, have financial need, 2.8 QPA, and be involved in campus organization/service activities.

THE DOUD SCHOLARSHIP: The Howard R. and Margaret Bellows Doud Scholarship is awarded to a freshman Music major. The amount of the award is variable and renewable. To be considered for any additional awards, a 3.0 QPA must be maintained. Selection is made by the Music Department. Scholarship to be given once every four years.

THE HENRY DYCK BOOK AWARD: Awarded annually to a student who demonstrates the highest academic achievement in English 226, The History of the English Languages.

EVANS SCHOLARSHIP: The Grace S. Evans Scholarship is supported by income from a bequest by Mrs. Evans invested in the Alumni Scholarship Fund. The scholarship for an entering freshman is $550 per academic year. Non-renewable.

EVANS-SABOL AWARD: Nancy Evans-Sabol was a talented young teacher and, like many members of her family, a graduate and friend of Mansfield University. In her memory her family gives an award of $100 to the graduating secondary education student with the highest point average as recorded the semester prior to student teaching.

PATTY FOX AWARD: This award was founded in memory of a former Mansfield University Music Education student. The recipient must be the junior Music Education major with the highest cumulative average having completed 64 semester hours. Transfer students are not eligible.

ANDREW FRANK AWARD: Andrew Frank was a Mansfield Education major who maintained his morale and courage throughout his college years despite a debilitating illness. This $50 award is presented by his family and friends to the graduating education student who, in the judgement of the faculty, has overcome adversity to achieve a college education.

THE FRICK WEAVER SCHOLARSHIP: The Gladys Frick Weaver award is supported through a trust to recognize and reward a currently enrolled Nursing student who has successfully completed 6 semesters of course work at Mansfield. The award is $1000 annually and the General Scholarship application needs to be completed and returned. Applications are forwarded to Nursing faculty for final selection.

THE GARRITY COMMUNICATIONS AND THEATRE FACULTY SCHOLARSHIP: The Arlyne V. Garrity scholarships are supported by a trust fund created by Harold W. Garrity. There are two $500 awards for upperclassmen majoring in Communication or Theatre who have earned at least 32 credits. Non-renewable. A committee from the Communication and Theatre Department makes recommendations to the Scholarship Committee.

THE OLIVER AND LOUISE GEORGE AWARD: The recipient is selected by the Mansfield University Scholarship Committee based on need and academic standing with first preference to an African American science major, second preference to a Chemistry major, then third preference to a science major, and lastly a freshman with SAT's 1,000 or more or an upperclassman with a 2.5 overall QPA and a 2.5 QPA in sciences. Non-renewable. Students may reapply every year. The award is $200 per year and shall be paid directly to the student.

THE GSE SCHOLARSHIP: A $1000 scholarship supported by a grant from an anonymous donor. The recipient must be enrolled in the combined MU/PA College of Osteopathic Medicine Program.

THE HALLORAN MEMORIAL SCHOLARSHIP: The Howard Halloran Memorial Scholarship is supported by income from a trust created by Thomas Halloran '55. The award is $1000 for the year. Preference in awarding the scholarship is given to a resident of Potter County who has financial need. If no qualified applicant from Potter County is available preference will be given to a student meeting the General Scholarship Guidelines who has financial need. Non-renewable.

THE HALLORAN SCHOLARSHIP: The Thomas and John Halloran Scholarship is supported by income from a trust fund created by Thomas Halloran '55. An award of $500 per year for four years is given. Preference in awarding the scholarship is given to residents of Potter County who have financial need. If no qualified applicant from Potter County is found, preference will be given to a student who meets the General Scholarship Guidelines who has financial need. This is a renewable scholarship for four years.

THE HONORS PROGRAM SCHOLARSHIP: The Honors Program Scholarship is supported through the Mansfield University Foundation by individuals who contributed to the general scholarship fund. Four $500/year awards are given. The recipients must be continuing students in the Honors Program with good academic standing. Faculty members of the Honors Council forward recommendations to the Scholarship Committee. Non-renewable.

THE HOWLAND SCHOLARSHIP: The Mike Howland Scholarship is supported by a grant made by the Mansfield Alumni Association and individuals who contribute to the general scholarship fund. The award is $1000 per academic year. The scholarship usually is given to a student who resides in Tioga County, PA. Non-renewable. General Scholarship Guidelines are used to select the recipient.

THE MARTIN LUTHER KING Jr. SCHOLARSHIP: The Martin Luther King, Jr. Scholarship is supported through the Mansfield University Foundation by individuals who contributed to the general scholarship fund. The award is $1000 for the academic year. Non-renewable. General Scholarship Guidelines are used to select an African-American freshman as the recipient.

THE KOCH SCHOLARSHIP: The Jean E. Koch Memorial Scholarship is supported by income from a bequest by Jean E. Koch invested in the Alumni Memorial Scholarship Fund. The scholarship is $750 per academic year. The General Scholarship guidelines are used to select the recipient.

THE KREUSCHER SCHOLARSHIP: The Jean Strynski Kreuscher Scholarships are supported through income from a trust fund created by Jean Strynski Kreuscher '27. Several $1000 awards and several $500 awards are given for the academic year. Awards are made to current music majors and students who have been accepted for enrollment as Music majors. The number of awards is determined annually. Total award is $9000. Non-renewable. A committee of Music faculty reviews applicants and forward recommendations to the Scholarship Committee.

THE LLOYD MEMORIAL SCHOLARSHIP: The S. Manford Lloyd scholarship is a four-year award of $1200 per year for a freshman math major with strong academic credentials. Only one student receives this scholarship at a time; therefore, the scholarship is offered once every four years. Renewable. The Math Department makes a recommendation to the Scholarship Committee.

THE MANSFIELD UNIVERSITY FOUNDATION, INC. SCHOLARSHIPS: These scholarships are supported by a grant made by the Mansfield Alumni Association and individuals who contributed to the general scholarship fund. The number of awards varies from year to year. Scholarships are $1000 per academic year. Non-renewable. General Scholarship Guidelines are used to select the recipients.

THE MARCH SCHOLARSHIP: The Jonathan G. March Scholarship is supported by the income from a trust fund created by James White '49. The award is $1000 per academic year. The recipient should be an incoming student from Tioga County, PA. The student

selected for the award is to be distinguished more by effort and commitment to higher education goals than by past academic achievement. Non-renewable.

THE McINROY ASSOCIATION SCHOLARSHIP: The Edward McInroy Scholarship is supported by the income from a trust fund created by the Edward McInroy Association. The award is $1000. The recipient should be an incoming student from Tioga County, PA. The student selected for the award is to be distinguished more by effort and commitment to higher education goals than by past academic achievement. Non-renewable.

THE MITCHELL SCHOLARSHIP: The P.D. Mitchell Scholarship is supported by a grant made by Beta Rho Omicron fraternity and individuals who contribute to the general scholarship fund. The award is $1000 for the academic year. It is given to an African-American student who is a junior or senior and has financial need. Non-renewable.

MUSIC DEPARTMENT FRESHMAN AWARDS: Awards are based on talent without regard to financial need. Candidates must have been accepted by the University and the Music Department and have SAT scores of 800 or more.

MUSIC DEPARTMENT UPPERCLASS AWARD: The award is based on an audition before the Music Department faculty. The applicant must have completed 32 s.h. and maintain a QPA of at least 2.5. Since the recipient receives one-half of the cash award during each of the two following semesters, a minimum of 2.5 must be maintained throughout the academic year.

NATIONAL ASSOCIATION OF MUSIC MERCHANDISING AWARDS: Two $500 awards are presented to senior students with the highest QPA in the music merchandising curriculum.

THE NAUMAN SCHOLARSHIP: The Stanley Henry Nauman Scholarship is a $200 award supported by an agreement between Ernest and Lynn Petty Bush and the Mansfield Foundation for a currently enrolled undergraduate student in the Wildlife and/or Fisheries program. A committee of biology faculty reviews applications and forwards a recommendation to the Scholarship Committee. Non-renewable.

THE PHI DELTA KAPPA SCHOLARSHIP: The Phi Delta Kappa Scholarship is supported by the income from a trust fund created by the Mansfield Chapter of Phi Delta Kappa, Professional Education Fraternity. The award is $750. The recipient is selected from applicants currently enrolled in a teacher preparation program. Non-renewable. The recommendation of a recipient is made by a committee from Phi Delta Kappa, and forwarded to the Scholarship Committee.

THE POWELL SCHOLARSHIP: The Maryon Farrer Powell Scholarship is a $1000 award for a student majoring in dietetics. The recipient can either be an entering or returning student who demonstrates strong academic ability and has financial need. Non-renewable. General Scholarship Guidelines are used to select the recipient.

THE PRESSER SCHOLARSHIP: The Presser Scholarship is supported by grants from the Presser Foundation and the Mansfield University Foundation. The award is $2250 for the academic year. A committee of music faculty members forwards recommendations to the Scholarship Committee. The award is given to a senior student currently enrolled as a Music major. Non-renewable.

RHINO AWARD: One award given for contributions to the Theatre.

SAI/SCHMITZ AWARD: Founded in memory of Dr. Sylvester Schmitz, a former Music Department chairman and Dean of Fine Arts. This $50 award is given to a junior or senior performance major with at least a 2.5 QPA who has demonstrated excellence in performance, composition, and/or scholarly research.

THE SCHIPBANKER SCHOLARSHIP: The Elinor Schipbanker Scholarship is supported by the income from a trust fund created by Elinor Schipbanker '20. The amount of the award is $750 per academic year. The award is given to a student who is accepted as an Art major. Non-renewable. General Scholarship Guidelines are used to select the recipient.

RICHARD SWARTZ AWARD: A $150 award given in memory of Richard Swartz, a bassoon major in the Class of 1981. The award is given to an outstanding double reed major.

THE SLABEY SCHOLARSHIP: The Slabey Award is supported by grants made by Dr. Mary Robinson-Slabey. It is a $4000 per academic year award for a Computer Science or Information Science major from St. Lucia. A committee of educators in St. Lucia will forward recommendations to the Scholarship Committee.

THE UNIVERSITY SENATE SCHOLARSHIP: The University Senate Scholarship is supported by grants from the University Senate and the Mansfield University Foundation, Inc. The amount of the award is $1500 per academic year. The recipient is selected from among applicants currently enrolled at Mansfield University. Non-renewable

THE SAM DEE THOMAS OUTSTANDING PAINTING AWARD: Given for oil painting or waterbase media.

THE STEPHENS SCHOLARSHIP: The Ruth Bedman Stephens Scholarship is supported by income from a trust created by Ms. Stephens which is part of the Alumni Scholarship Fund. The Scholarship is $1500 per academic year for a student from either Sayre, PA; Athens, PA; or Waverly, NY high school. The award which is initially given to an entering student is renewable up to 8 semesters provided a 3.5 grade point average is maintained.

THE TIADAGHTON AUDUBON SOCIETY MEMORIAL ENVIRONMENTAL AWARD: A competitive cash grant for one or more promising biology students to conduct independent research in disciplines related to the environment or organisms living in natural ecosystems. The award is made in memory of noted Wellsboro environmentalist Forest Watkins, and former Mansfield Biology professor, Dr. Charles Weed.

THE WRIGHT SCHOLARSHIP: The Mildred Packard Wright Scholarship is a four-year award of $1000 to an incoming freshman once every four years in a mathematics related major. Preference for the award is given to a student from Troy, Canton, or Bradford County, PA.

V. UNIVERSITY POLICIES

The university reserves the right to make changes in curricula, degree requirements, course offerings, and all academic regulations at any time when, in the judgement of the faculty, the President, and Council of Trustees, such changes are in the best interest of the students and the university. University policy procedures can be found in the student handbook, The Password.

GRADUATION REQUIREMENTS

It is the student's responsibility to know the university requirements for their major and for graduation.

To graduate from Mansfield University with an **associate degree,** a student must meet the following requirements.

(1) Earn the minimum number of credit hours for the particular major.
(2) Earn a minimum 2.0 cumulative quality point average (QPA) in all work attempted and in the major.
(3) Complete requirements for the major and the degree.

To graduate from Mansfield University with a **baccalaureate degree,** a student must meet the following requirements.

(1) Earn the minimum number of credit hours for the particular major, plus any required preparatory (090) courses. Preparatory (090) courses completed increase the total number of credit hours required for graduation.
(2) Earn a minimum 2.0 cumulative quality point average (QPA) in all work attempted and in the major.
(3) Complete requirements for general education and for the major.
(4) Complete 40% of the credits required for a degree at the 300-400 level.
(5) Complete the Writing Across the Curriculum program.
(6) Complete a second year language proficiency or minor for a B.A. degree.

To graduate from Mansfield University with a recommendation for **teacher certification** a student must meet the following requirements.

(1) Earn a minimum 2.5 cumulative quality point average (QPA) in all work attempted.
(2) Complete a teacher preparation certification program approved by the Pennsylvania Department of Education.
(3) Complete all requirements for a baccalaureate degree.
(4) Pass the National Teachers Examination (NTE) Core Battery and Specialty Area tests. Contact the University Certification Officer, Retan Center or Testing Officer, South Hall for NTE information.
(5) Students may earn a university degree with less than a 2.5 QPA, but the University will not recommend them to the Pennsylvania Department of Education for certification.

Some programs and majors have degree requirements in addition to the university graduation requirements. Students should consult their departmental advisor for such requirements.

No student may be granted an associate degree from the university without a minimum residency of 15 credit hours earned from Mansfield.

No student may be granted a baccalaureate degree from the university without a minimum residency of one year (32 credit hours earned from Mansfield). Minimum residency means the senior year (the last 32 credit hours) is taken through the university; exceptions may be made with approval from the Office of The Provost. Transfer credit may be awarded for up to 50% of the major requirements including major-related electives. If

the remaining credits do not meet MU guidelines for general education, they are applied as free electives.

Students receive a "Graduation Outlook" form upon completion of 80 credit hours. The "Graduation Outlook" notes courses and/or requirements still necessary to be completed for graduation including any deficiency in the cumulative quality point average (QPA) in all work attempted and in the major. Students may request an "Outlook" earlier through the Academic Records Office.

PREPARATORY (090) COURSES

Students entering Mansfield University are evaluated in the areas of mathematics, writing, and study skills in order to assure a minimal level of competency. In mathematics a student's previous preparation is assessed. A student's SAT verbal score is used to determine whether or not ED 090 is required. A writing placement examination is administered to all entering students, and placement is made in ENG 090 or ENG 112 W on the basis of their performance on that essay.

If 090 courses are necessary, the minimum number of credits required for graduation could increase. Students required to take ED 090 will be scheduled for the course in one of their first two regular semesters, and once placed in the course, the course cannot be dropped. Academic policy requires that any 090 courses be taken during the first 57 credit hours attempted.

WRITING ACROSS THE CURRICULUM (WAC)

Writing Across the Curriculum requirements are satisfied by completing ENG 112W, ENG 313W, and three writing-designated (W) courses (at least one of which must be an upper-level course). The WAC program helps students to become comfortable and competent writers through assignments in designated writing courses which require different conventions of purpose and audience, different formats and styles, and different kinds of writing for various disciplines. These writing courses are drawn from all areas of the curriculum and involve students in regular, frequent writing.

GENERAL EDUCATION

Philosophy

The objective of the general education component of an undergraduate degree is to provide students with a foundation for lifelong learning and to enable them to function as responsible citizens in a rapidly changing world.

General Education is designed, therefore, to enable students to continue to learn independently of formal classroom instruction. It extends throughout the undergraduate experience and into campus and community life. General Education is designed to encourage students to develop their abilities to observe, analyze and resolve problems, essential skills in a pluralistic and global environment. Finally, General Education makes students aware of the concept of ethical and moral responsibility to self and society.

General Education complements major course work and assists students in taking their proper place in society by helping them comprehend humankind: its cultures and history, the philosophies by which it lives, the means by which it communicates, and the arts and sciences which better its existence.

Program Overview

There are three types of courses in General Education: Core, Distribution Requirements, and General Education Electives.

Core Courses

General Education core courses are those so important to the education of all students that they are required of every undergraduate student. These include courses in English Composition, Oral Communication, Introduction to one of the Fine Arts, and Health and Physical Education:

COMMUNICATION SKILLS: must complete 9 credits.

COM	101	Oral Communication	(3)
ENG	112W*	Composition I	(3)
ENG	313W**	Composition/Literature II	(3)

FINE ARTS: must complete 3 credits.

ARH	101	Introduction to Art	(3)
MU	100	Introduction to Music	(3)
THT	110	Introduction to Theatre	(3)

HEALTH AND PHYSICAL EDUCATION: must complete 3 credits.

HPE	100	Health	(2)
HPE	101-199#	Physical Education	(1-3)

*All students should take ENG 112W (and ENG 090 if necessary) during their first year. Transfer students who have already taken a year of composition will receive credit for ENG 112W and for electives.

**ENG 313W must be passed with a grade of "C-" or better.

#Nursing degree students must be currently CPR certified or complete HPE 164 when attempting to complete the health and physical education requirement.

Distribution Requirements

General Education distribution requirements are satisfied by completing courses in the Liberal Arts and Sciences Disciplines. Students must satisfy the minimum requirements in four of the five following groups.

GROUP I, HUMANITIES: must complete a minimum of 9 credits.

CDN	101	Introduction to Canada	(3)
ENG	100	Introduction to Women's Studies	(3)
ENG	115	Introduction to Literature	(3)
ENG	203	Readings in Ancient Literature	(3)
ENG	204	Readings in World Literature	(3)
ENG	207	Readings in British Literature	(3)
ENG	208	Readings in American Literature	(3)
ENG	220	Special Topics in Literature	(3)
ENG	225	English Grammar	(3)
ENG	226	History of the English Language	(3)
ENG	305	Comparative Literature	(3)
HON	100	Humanities Honors I	(3)
HON	101	Humanities Honors II	(3)
HST	101	Western Civilization I	(3)
HST	102	Western Civilization II	(3)
HST	104	The World in The 20th Century	(3)
HST	201	American History through Civil War	(3)
HST	202	American History - Reconstruction to Present	(3)
PHL	201	Introduction to Philosophy	(3)
PHL	202	Contemporary Moral Problems	(3)
PHL	230	Introduction to Logic	(3)
PHL	280	Philosophy of Religion	(3)
PHL	300	Philosophy of the Arts	(3)
PHL	340	Ethics	(3)

GROUP II, FOREIGN LANGUAGES: must complete a minimum of 6 credits in one language.

Any course offered by the Foreign Language Department will satisfy this requirement.

GROUP III, NATURAL SCIENCES: must complete a minimum of 9 credits

AST	105	Exploration of the Solar System	(3)
AST	106	One Possible Universe	(3)
AST	108	Observing the Autumn Sky	(1)
AST	109	Observing the Winter Sky	(1)
AST	110	Observing the Spring Sky	(1)
AST	111	Observing the Summer Sky	(1)
BI	110	Zoology	(4)
BI	130	Botany	(4)
BSC	101	General Biology	(4)
BSC	102	Contemporary Biological Problems	(3)
BSC	103	Environmental Biology	(3)
CHM	101	Introductory Chemistry	(4)
CHM	102	Organic and Biochemistry	(4)
CHM	103	Chemistry and The Environment	(4)
CHM	104	Forensic Science	(3)
CHM	107	Macro Physical Science	(3)
CHM	108	Micro Physical Science	(3)
CHM	110	Survey of Chemistry	(4)
CHM	111	General Chemistry I	(4)
CHM	112	General Chemistry II	(4)
GEL	102	Environmental Geology	(3)
GEL	121	Physical Geology	(3)
GEL	122	Historical Geology	(3)
PHY	104	Forensic Science	(3)
PHY	107	Macro Physical Science	(3)
PHY	108	Micro Physical Science	(3)
PHY	151	Conceptual Physics I	(4)
PHY	152	Conceptual Physics II	(4)
PHY	210	General Physics I	(4)
PHY	211	General Physics II	(4)

GROUP IV, MATHEMATICS: must complete a minimum of 6 credits.

Any course offered by the Mathematics Department will satisfy this requirement, except MA 090 & MA 104.

GROUP V, SOCIAL SCIENCE: must complete a minimum of 9 credits.

ANH	101	Cultural Anthropology	(3)
ANH	102	Human Origins and Evolution	(3)
ECO	101	Principles of Macroeconomics	(3)
ECO	102	Principles of Microeconomics	(3)
ECO	204	History of Economic Thought	(3)
ECO	205	Contemporary Economic Problems	(3)
GEG	101	World Regional Geography	(3)
GEG	102	Human Geography	(3)
GEG	111	Physical Geography	(3)
GEG	222	Environmental Issues	(3)
HON	201	Social Science Honors	(3)

PSC	100	Introduction to Politics	(3)
PSC	201	American Politics	(3)
PSC	204	State and Local Politics	(3)
PSC	210	World Politics	(3)
PSC	301	Participations and Elections	(3)
PSC	312	Canada, Mexico, US.	(3)
PSC	333	Modern Ideologies	(3)
PSC	402	President and Congress	(3)
PSY	101	Introduction to General Psychology	(3)
PSY	210	Psychology of Family Relations	(3)
PSY	212	Human Sexuality	(3)
PSY	290	Life Span Development	(3)
SOC	101	Introduction to Sociology	(3)
SOC	121	Contemporary Social Problems	(3)
SOC	232	American Family Systems	(4)

General Education Electives

You may select any course, regardless of level (100-400), from the same disciplines approved for Distribution Requirements (Groups I - V). Such courses allow the student to go beyond the introductory level in a Liberal Arts area. In addition, any Art History (ARH), Art (ART), Communications (COM), Music (MU), Theatre (THT), or Women's Studies (WS) course may also be used as a general education elective. All upper division (300 and 400 level) courses offered by those prefixes represented in blocks 1-5 are allowed as general education electives.

Professional Elective (One Course)

A group of introductory courses in certain professional departments are approved as an acceptable General Education Elective. This permits the student to investigate one professional program as a possible major or minor within General Education. If this area is then selected as a major, the course must be replaced with another General Education or Professional course. One approved Professional Course may be selected from the following:

BI	392	Fish Management	(3)
BUS	130	Introduction to Business and Management	(3)
CIS	103	Introduction to Microcomputers	(3)
CJA	100	Introduction to the Administration of Criminal Justice	(3)
DIT	101	Personal Nutrition	(3)
ED	100	Schools & Society	(3)
RPL	102	Introduction to Regional Planning	(3)
SPE	101	Exceptional Persons in Society	(3)
SWK	101	Human Services	(3)
TRT	102	Introduction to Travel and Tourism	(3)

Rules for General Education

1. You must satisfy the minimum requirements in four out of five Groups listed under Distribution Requirements.
2. A maximum of six credits from the major discipline may be used to fulfill Distribution Requirements (Groups I - V) and General Education Electives. Professional courses are excluded except under rule #9.

3. No more than two courses with the same prefix may be used to complete any Group Distribution Requirement (Group I-V). No more than 12 credits with the same prefix may be used to complete distribution requirements and General Education Electives.
4. A maximum of 18 credits from approved courses or disciplines from one Group (Groups I, III or V) may be used to meet Distribution Requirements and General Education Electives. For example, 12 credits in Group I and 6 credits from the same discipline used in the General Education Elective area is the maximum allowed in a Humanities discipline. In the case of Groups II and IV, only 12 credits are permitted.
5. Any course from disciplines approved for Distribution Requirements may be used as General Education Electives except MA 090 and MA 104.
6. A minimum of 24 credits in Distribution Requirements is required for Bachelor of Music degree programs, 41 credits in Distribution Requirements and General Education Electives for the Bachelor of Science in Nursing program, and 42 credits in Distribution Requirements and General Education Electives for all other Bachelor degree programs.
7. Six credits in a single language is required when completing Group II, Foreign Language.
8. Physically disabled students may complete the HPE 101-199 requirement by special arrangement.
9. One Professional course is allowed from those approved as a General Education elective; however, it must be replaced should the student subsequently choose to major in that field.

COURSE LOAD

A normal academic course load is defined as 12 to 18 credit hours. If you want to schedule more than 18 credit hours, you must have a 3.0 cumulative point average (QPA). If you do not have a 3.0 QPA, you must submit a "Petition to the Faculty" form to the Provost, Vice President for Academic Affairs for permission.

Students registered for fewer than 12 credit hours are not eligible to live in campus residence halls without special permission from the Vice President for Student Affairs or designee.

ADD/DROP

You may ADD a course during the first seven working days of a semester and DROP a course during the first six working days of a semester. Add/Drop cards are available in the Academic Records Office. The class instructor must sign all add or drop cards. If you have earned fewer than 60 credits you must also have add or drop cards signed by your advisor.

ACADEMIC INTEGRITY

Students are expected to do their own academic work. Dishonesty in academic work, including cheating, academic misconduct, fabrication, or plagiarism is unacceptable. Faculty are expected to instruct students in ways of avoiding these forms of academic dishonesty. Faculty are also responsible for assessing and reporting all charges of academic dishonesty to the Provost/Vice President for Academic Affairs. The student handbook, The Password, outlines the procedures faculty will use to initiate disciplinary action in cases of academic dishonesty.

Faculty are responsible for informing students of course evaluation criteria, for adherence to the stated criteria, and for determining grades in a fair and equitable manner. If a student charges that a faculty member has discharged professional duties in

an improper, arbitrary, discriminatory, or otherwise unjustified manner, complaints are considered by the procedures outlined in The Password.

GRADING

Professors provide students a written syllabus prior to the end of the first week of class which includes the criteria for academic evaluation. Mansfield University uses a 4-point grading scale, as shown below, to evaluate academic performance.

GRADES	INTERPRETATION	QUALITY POINTS
A	Excellent	4.0
A-		3.7
B+		3.3
B	Above Average	3.0
B-		2.7
C+		2.3
C	Good Standing	2.0
C-		1.7
D+		1.3
D	Minimally Passing	1.0
D-		0.7
F	Failure	0.0

The following designations may be used in addition to the grades shown above:

AU -	Audit
EX -	Credit by Examination (D- grade or better)
I -	Incomplete
P/F -	Pass/Fail (D- grade or better)
S -	Satisfactory (D- grade or better)
U -	Unsatisfactory
W -	Withdrawal from a course after the drop period

The cumulative quality point average (QPA) is determined by dividing the total number of quality points earned by the total number of credit hours of work attempted. The cumulative QPA is the index by which a student's academic standing is judged.

INCOMPLETE (I)

An "I" (Incomplete) grade is used to denote unfinished work because of serious mitigating circumstances beyond the student's control. It is a privilege granted because of circumstances, not a right to be expected by the student.

The "I" is submitted by professors at their discretion on the grade report form at the end of the semester. The professor and the student will identify the specific requirements to be satisfied in order to convert the "I" to a letter grade. The student is responsible for the removal of an "I" grade within the first three weeks of the subsequent semester except in cases where serious circumstances prevail and a request for an extension is made by the faculty member to the Academic Records Office. If the "I" grade is not cleared within the allotted time period, a final grade of "F" is recorded.

PASS/FAIL (P or F)

You may take a total of eight courses on a pass/fail basis; however, no more than one course each semester may be taken under the pass/fail option. Pass/Fail credits are not reflected in the student's QPA; however, a passing (P) grade is counted as credit hours earned. Students may elect the pass/fail option during the first seven working days of the

semester. They may neither change the pass/fail option to a letter grade nor select the pass/fail option after the first seven working days of the semester. A passing grade is "D-" or better. Three failures under this option will constitute a loss of the option. Pass/Fail application forms are available in the Academic Records Office. The following restrictions apply:

1. 100 or 200 level courses may not be taken pass/fail to fulfill any General Education requirements.
2. Any 100 or 200 level course taken pass/fail will count only as a free elective.
3 Courses required by the major department may be included in the pass/fail option at the discretion of that department, require the chairperson's signature, and may not be counted for General Education credit.

WITHDRAW FROM A COURSE (W)

After the drop period, you may withdraw from a course until 4 p.m. the Friday of the ninth week of classes by contacting the course instructor. A "W" will be recorded in the permanent record and will not be calculated in the quality point average (QPA). A student who withdraws from all courses will automatically be withdrawn from the University.

AUDIT (AU)

Students interested in auditing a course (attending class, but receiving no grade or credits) must submit the Audit Form before the end of the Add Period (first seven working days of the semester). The Audit Form is available in the Academic Records Office, South Hall. The class instructor must grant permission for any student to audit a course.

REPEATING A COURSE

When you repeat a course which cannot be repeated for credit then all grades received shall be included on your permanent record, but only the last grade received shall be used in computing your cumulative quality point average (QPA).

If you fail a course, you may not repeat it on a pass/fail or credit-by-exam basis. If you fail a course that can be repeated, you should notify the Academic Records Office if you intend to repeat it.

GRADE CHANGE

If an instructor makes an error in the final grade given to a student, a grade change request must be made within the first three weeks of the subsequent semester. Grade changes are not allowed after that time unless a request for an extension is made by the faculty member to the Academic Records Office.

DUE PROCESS (Appealing a Grade)

If you wish to appeal a grade, refer to the procedures outlined in The Password.

TRANSCRIPTS

Official transcripts of courses taken at Mansfield University are prepared by the Academic Records Office and issued according to the following policies:

a. Student's records are confidential. Transcripts, therefore, are issued only at the written request of the student. Requests by telephone are not accepted.
b. No transcript is issued to or for a student who is indebted to the university until the debt has been paid in full.
c. Official transcripts of credits(s) earned at other institutions that have been presented for admission and evaluation become part of your permanent record in the Academic

Records Office and cannot be reissued or copied for distribution. Transcripts from other institutions must be obtained directly from those institutions.

d. Official transcripts issued directly to you will only be released in a signed, sealed, embossed envelope. The envelope will bear the statement that if opened the transcript should be considered unofficial and the integrity of the document is not guaranteed by Mansfield University.
e. Unofficial transcripts (student copy) contain the same information as an official, but do not bear the authorized signature or seal of the university.

MINIMUM ACADEMIC STANDARDS

All degree-seeking students, except first semester transfers, must meet the minimum academic standards of the institution. The minimum academic requirements for continuation at Mansfield are:

0-18	credit hours attempted - 1.00 QPA
19-37	credit hours attempted - 1.60 QPA
38-56	credit hours attempted - 1.80 QPA
57+	credit hours attempted - 2.00 QPA

Transfer students are subject to academic dismissal after their first semester only if their QPA is less than 1.00. Thereafter, they are subject to the above standards as are all other degree-seeking undergraduates. Credit hours attempted include transferred credit hours.

ACADEMIC PROBATION

A matriculated student whose cumulative quality point average (QPA) is between the minimum academic standard and 2.00 at the end of a semester is placed on academic probation until the QPA is 2.00 or above.

Probationary status does not mean that a student is dismissed from the University. It means that although the minimum academic requirements have been met, the QPA is not acceptable for graduation. A student on probation receives a letter from the university about probationary status and subsequent assignment to the Academic Advising Center in South Hall.

With the assistance of an advisor, students develop strategies for improvement and take advantage of available academic support services.

ACADEMIC DISMISSAL

A degree-seeking student whose cumulative quality point average (QPA) is below the minimum academic requirement at the end of a semester will be dismissed from Mansfield.

The determination of the minimum academic requirement includes courses accepted in transfer and courses attempted at Mansfield.

If you are academically dismissed you may be reinstated to the University after a one year interval or appeal to the Academic Standards Review Board (ASRB). A second or subsequent dismissal automatically terminates your association with Mansfield.

CLASS STANDING

Class standing is determined by the total number of semester hours earned including credits accepted in transfer from other accredited colleges.

Freshman	0-31	semester hours earned
Sophomore	32-63	semester hours earned
Junior	64-95	semester hours earned
Senior	96+	semester hours earned

DEAN'S LIST

The Dean's List is issued at the close of each semester. It includes only undergraduate students. You must earn at least 12 credits for which a letter grade is received (P/F and S/U grades are excluded). The semester quality point average (QPA) must be between 3.50 and 3.99 inclusive.

PRESIDENT'S LIST

The President's List is also issued at the close of each semester. It includes students who fulfill the above requirements and attain a semester quality point average (QPA) of 4.00.

INTENT TO GRADUATE

Candidates for the Associate Degree or Bachelors Degree must complete the "Intent to Graduate" form available in the Academic Records Office, South Hall.

Students are encouraged to participate in the graduation exercise which recognizes and honors their academic accomplishments.

COMMENCEMENT HONORS

Superior scholastic achievement is recognized at Commencement. Bachelor's degree students must have completed at least 64 credit hours at Mansfield University prior to their final semester to receive honors recognition at Commencement. Honors designations are based on cumulative quality point average (QPA) as indicated:

Cum Laude	3.35 to 3.64
Magna Cum Laude	3.65 to 3.94
Summa Cum Laude	3.95 to 4.00

Students who meet the honors requirements upon completion of their final semester will have such recognition noted on their permanent record.

Associate degree students must have completed at least 30 credit hours at Mansfield University prior to their final semester to receive honors recognition at commencement. A cumulative QPA of 3.5 or higher is required for this recognition.

MAINTENANCE OF MATRICULATION

You are considered to be in a continuing matriculation (or degree seeking) status under one of the three following conditions:

1. Students who have had no interruption in course work of more than one semester.
2. Students who are off campus doing approved course work consistent with program requirements and thereby meet degree or program requirements in effect at the time of initial matriculation.
3. Students who withdraw in good academic standing, but who return within one calendar year, and who notify the Admissions Office.

READMIT POLICY

Matriculated students who have not been in regular attendance during the previous semester must apply for readmission to the university. This does not apply to non-matriculated students.

Readmit applications must be submitted, along with the appropriate fee, by March 1 for the fall semester and November 1 for the spring semester. A statement should accompany the application about activities, including such information as employment, college course work completed, or military service. The application fee may be waived for

students who provide a letter to the Academic Records Office and Admissions citing reason(s) for withdrawal and stating expected return entry date.

Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission. Before students are readmitted they must clear all outstanding university-related debts.

CERTIFICATION

Applicants wanting endorsement for teacher certification (initial or added) by Mansfield University must contact the Certification Officer, Retan Center and complete or submit the following:

1. Personal interview with the Certification Officer, if requested.
2. Application completed and returned with a $25 fee. Application forms are available in the Certification Office, Retan Center.
3. Official transcripts of all college work completed must be sent directly to the Certification Officer at Mansfield University.

SECOND BACCALAUREATE DEGREE

A student who possesses a baccalaureate degree may earn a second bachelor's degree upon completion of the following requirements: 1) a minimum of 32 credit hours at Mansfield following the first degree (internships, observation/participation, and student teaching credit hours are not counted in the required minimum), 2) all requirements for the major in which the second degree is to be earned, 3) General Education is considered closed on the first degree except any specific General Education requirements for the second degree if not already completed, and 4) earn at least a 2.0 cumulative quality point average (QPA) in all work attempted and in the major. The QPA of the original degree will be "sealed" so there will be a new and totally distinct QPA for the new degree.

ADDING MAJOR(S) TO A COMPLETED BACCALAUREATE DEGREE

A graduate of Mansfield University may readmit to add new major(s) to a prior degree. You must be accepted by the department offering the program of study and fulfill all the requirements for the new major. Any courses required in the new major that were completed prior to returning to Mansfield will be waived. General Education will be considered satisfied, except specific requirements for the second major, if they have not already been completed.

The QPA of the original degree will be "sealed" so there will be a new and totally distinct QPA for the new major(s). You must maintain a minimum QPA of 2.0 in work taken after the baccalaureate degree to remain at Mansfield. There are no minimum number of hours which must be completed after receipt of the degree in order to add a new major.

Upon completion of all requirements, a notation will be made on the permanent record indicating the new major(s) and the date completed.

DUAL/MULTIPLE MAJORS

Multiple majors must be within the same degree; that is, a B.A. major may be added to a B.A. degree, a B.S. to a B.S., but not a B.S. to a B.A., etc. The first major selected is considered primary. All majors are listed on the student's permanent record when requirements for each major have been satisfied.

ACADEMIC MAJOR/MINOR REQUIREMENTS

The requirements for your major and/or minor appear on the Evaluation Record (ER) which is maintained in the Academic Record's Office. You must complete the major/minor requirements that exist at the time you are admitted to the university. Should major/minor requirements change, it affects only new students and currently enrolled students who may choose to satisfy the new program requirements. Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission.

ACADEMIC MINOR

A minor consists of no less than 15 and no more than 24 related credit hours. Students must attain a minimum 2.0 cumulative quality point average (QPA) in all courses required. The Bachelor of Arts degree candidate must choose between a minor or second year foreign language proficiency. Though not a requirement for other degrees, a minor can be used to enhance your academic experience and will appear on your permanent record. Minor forms are available in the Academic Records Office, South Hall.

CHANGE OF MAJOR/MINOR

Change of major or minor forms are available in the Academic Records Office, South Hall.

PETITION

Program Variance: under special circumstances, curriculum requirements may be modified. A department chairperson may substitute or waive major course requirements by informing the Academic Records Office in writing of such requested program change. Students may petition the Provost for other program variances.

Waiver of University Policies or Regulations: when any rule or regulation of the university causes an unfair hardship, you may petition the Provost for an exception. You should contact your advisor for assistance in preparation of a petition. Petitions are available in the Academic Records Office, South Hall.

Alternatives to Traditional Study Experiences

Advanced Placement (AP)
We accept high school courses taken prior to admission to the university under the national Advanced Placement (AP) program. A minimum score of 3 on the qualifying examinations is required for award of credit. No more than 12 credits earned by such examinations may be applied toward graduation requirements.

College Level Examination Program (CLEP)
We participate in the national College Level Examination Program (CLEP). MU grants credit for CLEP SUBJECT examinations, but does not grant credit for the CLEP GENERAL examination. Subject examinations are available in the areas of business, composition, education, foreign languages, humanities, mathematics, science, and social science.

CLEP is a way to earn college credits for what you have already learned and may shorten your college experience. Information regarding CLEP examinations is available from the Admissions Office.

Credit by Exam (EX)
Matriculated students who feel they have already mastered the material in a Mansfield course may request permission to challenge the course by examination. Students may elect this option during the first seven working days of the semester. This does not include courses in the areas of independent study, ensemble or other group participation courses, student teaching or pre-professional experience, seminar or selected topics, and laboratory experience unless special permission is provided by the department offering the course and the Provost/Vice President of Academic Affairs.

Students may not challenge a course in which they have demonstrated competency by passing a more advanced course nor a course which has been waived because of demonstrated competency or advanced placement. The examination must be completed and the contract returned to the Provost's Office within the first four weeks of the semester. Applications are available in the Academic Records Office, South Hall.

Graduate Courses
As an undergraduate student at Mansfield, you may enroll in a graduate course (500 level) if you are within 18 semester hours of having satisfied the requirements for a bachelor's degree (as certified by the Academic Records Office).

Graduate courses may be applied toward the undergraduate degree requirements upon approval of the "Request for Permission to Enroll in Graduate Courses" form available in the Graduate Office and satisfactory completion of such course(s).

Graduate courses may count for graduate credit upon conferral of the bachelor's degree if these credits raise your total beyond the number required for the bachelor's degree. This does not imply automatic admission into the Graduate program.

Military Service Credit
Veterans having completed a minimum of basic training with honorable service in the United States Service Branches (DD 214) may apply for three credits in HPE 100 (Health) and/or HPE 101-199 (Physical Education). In addition, credit may be awarded for service

training programs based on an official military transcript and recommendations in the American Council on Education Guide.

International Exchanges and Study Abroad

A world of opportunity exists for Mansfield students who decide to participate in international exchange or study abroad programs. We offer direct exchange programs with Charles Sturt University in Australia, and Volgograd State University in Russia. Other Mansfield study abroad programs have been arranged in Canada, Costa Rica, and England. You may also participate as Visiting Students in other PA State System Universities' international programs or in approved programs offered by other US and foreign institutions of higher education.

Contact the Office of Cross-Cultural Studies for information about available programs and an application. You must provide evidence of a cumulative QPA of 2.5 and submit 2 references from professors or administrators. Departmental advisors and the Coordinator of Cross-cultural Studies will help you select courses to take while abroad which will meet general education or major program requirements. Students who study abroad may opt to receive Pass or Fail grades (P/F) for up to 15 credits of course work in any one semester.

Study abroad programs are available in a variety of cost ranges. Financial aid and study abroad scholarships are available for qualified students.

Visiting Students

Students enrolled full-time at a SSHE university may elect to participate in The Board of Governors' Visiting Student program offered at sister institutions for a limited period of time. Information regarding the Visiting Student program is available from the Academic Records Office.

Independent Study and Individualized Instruction

Independent Study (IS) is available in each curricular field. The appropriate curricular prefix precedes the course number 497, and the credit hours vary from 1 to 3. Independent Study may be repeated for more than 3 credit hours total, but each Independent Study project may be for no more than 3 credit hours.

Independent Study is an activity initiated by you to increase your already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field.

To register for Independent Study, prepare a contract (available at the Academic Records Office) which must be approved by the faculty director, department chairperson and Provost. Independent Study procedures must be completed before the beginning of the semester or summer session for which the Independent Study is sought.

Individualized Instruction (II) is available on a restricted basis. Ordinarily permission to take a course by Individualized Instruction is reserved for students who are close to graduation and who have not been able to meet a degree requirement either because the course has not been available or because of some other mitigating circumstance.

To register to take a course by Individualized Instruction, you must complete a form (available at the Academic Records Office) which must be approved by a faculty director, department chairperson, and the Provost.

HUMAN SUBJECT RESEARCH POLICY

Research projects undertaken by Mansfield University students or faculty must be approved prior to involvement of human subjects. The review process is intended for the protection of human subjects and this shall be the sole object of the review.

There are two types of review - Category A and Category B. The responsibility for Category A review rests with each department in which research involving human subjects is undertaken. Research protocols are subject to Category A review if they pose no more than minimal risk to human subjects and meet one or more of the five exempted conditions detailed in the Human Subjects Research Guidelines.

Research protocols which do not involve one of the five exempted conditions are subject to Category B review by the Institutional Review Board (IRB).

The review requirements which are outlined in the Human Subjects Research Guidelines do not apply to the following: 1) in-class research exercises which are an integral part of the learning experience in a university course; or 2) behavior modification exercises using established professional procedures; or 3) student teaching and other clinical practicums. The Human Research Guidelines document is available in the Grants and Contracts Office, North Hall.

SEXUAL HARASSMENT POLICY

Harassment on the basis of sex is a violation of Title VII of the U.S. Civil Rights Act, Title IX of the Education Amendments of 1972, and of the Pennsylvania Human Relations Act. Because the University is committed to providing an environment where each person can learn and work to his or her fullest capacity, the university does not tolerate sexual harassment.

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature. Sexual harassment occurs when:

1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment, or a student's academic status or treatment.
2) submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting such individual; or
3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment.

Individuals who believe themselves to be the victims of sexual harassment, or who have questions about the university's policy on this matter should contact the Affirmative Action Office, Pinecrest 113, or call (717) 662-4051.

Existing affirmative action guidelines are used in processing complaints.

HANDICAPPED POLICY

Section 504 of the Rehabilitation Act of 1973 provides that "no otherwise qualified handicapped individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving federal assistance. "Section 504 prohibits discrimination against handicapped individuals in recruitment, testing, admissions, or after being admitted to a college/university. Mansfield University is committed to making the necessary adjustments so that handicapped students are able to fulfill academic requirements and to ensure that they are not excluded from programs because of their handicap. Inquiries should be directed to the Affirmative Action Office, Pinecrest 113, or call (717) 662-4051.

ACADEMIC AND PERSONAL DEVELOPMENT

The University provides developmental services to students for the successful pursuit of their academic program and personal development.

These services include Academic Advising, Academic Success Center, Athletic Mentoring, Counseling, Minority Mentoring, Special Programs, and Writing Center.

Academic Advising Center

The Academic Advising Center assists students in a variety of ways related to their academic work. The Center is responsible for the advising of Probationary, Readmitted, and Reinstated, students. In addition, the Academic Opportunity, Athletic Mentoring, and Minority Mentoring programs are assigned to the Center, as well as the Academic Standards Review Board (ASRB).

All students with a QPA below 2.0 are required to make regularly scheduled appointments with their advisor throughout the semester. An advisor can help students make plans and take specific action to improve their academic progress. The goal of the Advising Center is to serve as a resource area and to help students adjust to college.

Academic Success Center

The Academic Success Center offers tutorial assistance and professional consultation for students who wish to improve basic reading, writing, computational and/or computer skills or extend their knowledge in academic content areas. The center is staffed by professionals, para-professionals, and peer tutors. It includes a computer lab and small software library. A peer tutorial component is also housed within the center to assist individuals or small groups in most subject areas.

Athletic Mentoring

The Athletic Mentoring program helps student athletes improve their academic performance and maintain their academic eligibility for participation in intercollegiate athletics.

Although athletes on academic probation represent the primary service population, all student athletes are invited to use the support services in this program. These services include academic advising, advice on course scheduling, mentoring, study group management, tracking and monitoring academic performance, and making referrals to other academic support services such as tutoring, counseling, testing, and career advising.

The program also maintains interactive relations with other academic support services to help deliver and coordinate services to athletes and with coaches to provide effective communication in reporting and monitoring the academic progress of student athletes.

Counseling Center

The University Counseling Center provides free counseling services to all university students and staff. Our primary purpose is to help people grow in a positive and productive direction. We will assist you in understanding yourself, your feelings and emotions, your personal problem areas, and your educational concerns. We will develop a strategy with you to assist in reaching your goals and in helping you to live more effectively.

All counseling sessions are completely confidential. The center is staffed by four professional counselors who comply with the codes for ethical behavior as outlined by the American Counseling Association and the American Psychological Association. Counseling services include individual counseling, group counseling, individual or group career counseling, student advocacy, consultation, and testing.

Special Programs

There are two academic support programs assisting individuals who have potential to be successful college students, but do not qualify for regular admission to the University, the Act 101 and the Academic Opportunity Program (AOP), located in South Hall.

The Act 101 program supports Pennsylvania residents whose cultural, economic, or educational background might impair their ability to pursue higher educational opportunities successfully. The Academic Opportunity Program (AOP) is designed for students who did not do well enough in high school to qualify for regular admission to the University.

Both programs help to develop their academic skills. Students accepted through Special Programs become regular matriculated students with the same opportunities and responsibilities as other students in accord with university policies and procedures.

Writing Center

The Writing Center is an integral part of the university's Writing Across the Curriculum program. Professional and peer-writing tutors help students develop effective writing and editing strategies that support the formal writing instruction presented in various courses throughout the curriculum.

Career Development and Placement Services

Career Development provides an opportunity for student self-evaluation, occupational skills and interests evaluation, and vocational outlook opportunities. A career library is also available.

The Placement Service helps students find meaningful employment upon graduation. Job vacancies, civil service opportunities, and teacher vacancies are publicized to seniors and alumni who are registered with the Career Development and Placement Office. On-campus interviews are scheduled and conducted by representatives of business, industry, public schools and civil service agencies. Student placement credentials are available to potential employers upon mutual request. It is important, therefore, that students wanting interviews with potential employers, or who are applying for positions, be registered with the service and have credential folders complete. A Placement Service fee is charged following graduation.

This office also serves as a testing center for national testing programs relevant to students' future goals such as the Graduate Record Examination (GRE), Miller Analogies Tests (MAT), and the National Teacher Examination (NTE). Information on other testing programs is also available.

ΑΧΡ

VI. STUDENT LIFE

RESIDENCE HALL LIVING

The community living environment, provided through our residence halls, enables you to gain invaluable educational and personal experiences. While residence hall living presents many opportunities and conveniences, it also challenges you to demonstrate appropriate behaviors and live within university and societal expectations.

We can accommodate 1,800 students in our five residence halls. To meet the interests of our diverse student body, a variety of housing options are available, including single sex, co-educational, wellness floors, some academic majors, and special interest housing. In addition, standard double suites and single room options are also available. To help ensure a positive living environment, each hall is supervised by a full-time, live-in professional staff member who is assisted by student staff members who live on each residence hall floor.

Since our residence halls are homes away from home for our students, we've attempted to furnish and equip them to meet students' full needs. In addition to furniture each room is equipped with a phone and cable TV hookup and has optional computer network access. Each residence hall has laundry facilities, computer labs, exercise/weight rooms, kitchenettes, study lounges, and comfortably furnished lounges for informal gatherings. You can also opt to rent lofts and microwave/refrigerator combination units. Our halls are the focal point for a variety of educational, recreational and social programs and activities.

Comprehensive information about residence hall living, on-campus residency requirements, and room assignments is in the University handbook, The Password, and the residence life brochure, "Under The Big Top."

STUDENT ACTIVITIES

The university experience involves learning both in and outside of the classroom. To ensure a positive out-of-class educational experience, we offer a wide range of activities to supplement the in-class learning, to provide you with opportunities to gain valuable hands-on experience and to strengthen interpersonal skills. The Student Activities Office coordinates a variety of social, cultural, and recreational programs.

STUDENT ORGANIZATIONS

We have almost 90 active clubs/organizations and a wide variety of music ensembles, both vocal and instrumental, that provide outlets for student interests as well as opportunities for students to sharpen personal skills and strengthen both leadership and organizational skills. Many of the activities planned by these organizations are funded by student activity fees.

STUDENT UNION

Memorial Hall, the campus student union building, is a focal point for students to gather and relax. Facilities in the union building include an automated snack bar, TV lounge, the Martin Luther King, Jr. Resource Center, game room, a multi-purpose meeting room, a quiet board-game room, as well as offices for the Student Government Association, the Mansfield Activities Council, the student newspaper and some administrative services. Plans are currently underway for a new student union in the renovated Alumni Hall.

STUDENT GOVERNMENT ASSOCIATION

Student opinion and input into the operations of Mansfield University are valued and fostered. Our Student Government Association (SGA) provides a forum for discussion and an avenue for students to make change.

Under the umbrella of SGA, students serve on the Executive Board, Student Senate, and a wide range of university committees. Here, alongside faculty and staff, they are part of the decision-making process of the university.

ATHLETICS AND RECREATION

Mansfield University is a member of the National Collegiate Athletic Association (NCAA) and our 12 intercollegiate teams play at the Division II level.

Women's programs include field hockey, basketball, cross-country, swimming, softball and track. Men's programs include football, cross-country, basketball, wrestling, baseball and track.

Our recreational sports program is for students who value athletic participation but at a less competitive and more social level. We provide a broad range of opportunities in men's, women's and coed events as well as multiple groups involved in aerobics. In addition, we have both indoor and outdoor facilities for organized as well as individual students participation. Our new fitness and recreation center provides facilities for basketball, volleyball, badminton, indoor soccer, aerobics, racquetball and dance, and includes a well-equipped fitness room. Students may utilize the facilities individually, in groups, or as part of our recreational sports program.

HEALTH SERVICES

Primary medical care is provided at our clinic located on campus in Maple B. There is no additional cost for basic care beyond the health fee paid each semester. There is a fee, however, for specialized services such as tests and x-rays. Both the residence hall staff and campus police are trained to deal with medical emergencies. Community ambulance service is available on a 24-hour basis to transport serious emergencies to local hospitals as required.

STUDENT POLICIES

EDUCATIONAL RECORDS CONFIDENTIALITY POLICY

We collect and maintain data and information about students for designated periods of time and for the express purpose of facilitating their educational development. We recognize the privacy rights of individuals, as guaranteed by the Family Rights and Privacy Act of 1974 and the Pennsylvania Right-to-Know Law of 1957. We attempt to balance those rights with the institution's need for information relevant to the fulfillment of its educational missions. As such, the university has an approved policy on the confidentiality of student records which outlines all procedures that apply to the collection, maintenance and release of such records. Copies of this policy are on file in the library or may be obtained at the Student Affairs Office, 516 North Hall.

Students should be aware that the following information is considered public information and may be made available without prior consent and is considered part of the public record of a student's attendance: name, address, phone number, date/place of birth, major, participation in activities/sports, weight/height of members of athletic teams, dates of attendance, degrees/awards received and most recent educational institution attended. Any student wishing to prevent the public disclosure of this information may request same by contacting the Office of Student Affairs prior to the close of the first week of classes of any given academic semester. Such a request, however, must be to prevent the public disclosure of all the aforementioned information.

SMOKING/TOBACCO POLICY

This policy is consistent with both the Pennsylvania Clean Air Act and the existing policy adopted by the State System of Higher Education Board of Governors. Any concerns with this policy or reports of violation should be addressed to the Vice President for Administration and Finance.

There is to be no smoking or the use of smokeless tobacco products in MU buildings, except in designated smoking areas. No smoking will be permitted in common areas, reception areas, conference rooms or other places where groups or committees may convene. Smoking is permitted in designated private offices. The entrances to all buildings will be appropriately signed.

The use of smokeless tobacco will be permitted in smoking areas only, provided that users of these products discard the expectorant in toilets and not in common ash trays and common waste containers.

The Vice-President for Administration is responsible for the designation of buildings and those appropriate smoking areas. Requests to designate additional "SMOKING AREAS" or deletion of these areas should be addressed to the Vice President for Administration who will make the decision after consulting, where appropriate, with other cabinet members, and the Administrative Affairs Committee of the Faculty Senate.

The All Residence Hall Council has policies on smoking and use of smokeless tobacco which will continue to be in effect.

IDENTIFICATION CARDS

A university identification card (I.D.) is issued to students, faculty, and staff. It must be carried at all times and shown upon request to authorized university personnel. I.D.'s are examined at the library, at athletic events, and at various campus activities.

Replacements and new I.D.'s are available for $10 in the CCSI Office, Manser Hall. ID's are also a student's meal card and can be used as a cash debit card.

DRUG AND ALCOHOL ABUSE

MU is an active member of the Network of Colleges and Universities Committed to the Elimination of Drug and Alcohol Abuse. The standards of the network have also been adopted by the Board of Governors of the State System of Higher Education as policy for all state universities.

We have the responsibility to provide a drug free environment where the use of alcohol and other drugs do not interfere with learning. For this reason, the possession, distribution, and/or use of alcohol and other drugs on the MU campus is prohibited. Persons violating this prohibition will face university disciplinary sanction, and/or arrest by university police. University disciplinary actions will include an educational component to encourage the individual's acceptance of the responsibility for his/her own choices and behavior.

MU will educate and provide information to the campus community for the purpose of preventing the abuse of alcohol and other drugs. The university will also provide counseling and referrals for persons with alcohol or other drug problems.

MOTOR VEHICLE REGISTRATION

Regulations pertaining to parking and vehicle use are available at the Campus Police Office, and are also distributed when registering your vehicle.

ORGANIZATIONS

Advocacy Association
An organization of individuals who provide peer education in the areas of dating violence, sexual assaults, and sexual harassment. In addition, support is provided to students who may become victims of dating violence, sexual harassment or sexual assault.

All Residence Hall Council (ARHC)
ARHC is the governing body for the residence halls. Its purposes are to set hall policy, approve hall budgets, and to sponsor activities both in the halls and on a campus-wide level. ARHC is an active member of the National Association of College and University Residence Halls (NACURH). Delegates are sent to conferences on the local, regional, and national level. Membership is open to any student who lives in the residence halls.

Alpha Chi Rho
Alpha Chi Rho, nationally chartered in 1987, offers members educational, social, and recreational experiences designed to further personal growth. The bond between members is one of brotherhood, mutual respect, and furthering the principles of the fraternity, all designed to serve the membership, the university, and the community.

Alpha Psi Omega
Alpha Psi Omega, the world's largest honorary dramatics fraternity, provides an honor society for those doing exemplary work in drama. Students earn points for participation in departmental productions, qualifying them for election to membership.

Alpha Sigma Alpha
A national social sorority, Alpha Sigma Alpha's purpose is to assist college females in growing intellectually, spiritually, socially, and physically. A variety of sponsored programs enable any college female desiring growth to accomplish their purposes. Participation in the Special Olympics is our philanthropic project. "Aspire, Seek, Attain" is ASA's motto.

Alpha Sigma Tau
Alpha Sigma Tau is a national sorority emphasizing academics. A minimum 2.2 grade point average is necessary to participate. AST is involved in a variety of social service activities both with the local community and nationally. The motto is "Active, Self-reliant, and Trustworthy."

American Choral Directors Association (ACDA)
The ACDA chapter at Mansfield University is affiliated with the National American Choral Directors Association. The purposes of the chapter are to provide an incentive for students to become more committed to the art of choral conducting at an earlier age; to provide learning opportunities outside the classroom; to provide useful services to the choral area and music department; to encourage student leadership and direct experience with "peer motivated" discovery of the choral art. Any Mansfield University student is welcome.

American String Teachers Association
The Mansfield student chapter of ASTA is an organization open to students who play string instruments. The organization promotes a high standard of string playing and teaching in the community, schools, orchestras and on campus.

Anthropology Club
The MU Anthropology Club welcomes students from all majors who have an interest in anthropology and archaeology. Interests in a broad range of social sciences, cultures, art and history are represented by the club members. The club participates in archeological digs, sponsors cultural events such as bringing Native American dancers and guest speakers to campus.

Aquaculture Club
This organization plans and provides educational programs and activities in the fields of fish culture and biology, including movies, slide shows, seminars and field trips.

Art Acquisition/Exhibition
This is a student committee working under the guidance of a faculty advisor. The committee plans monthly art exhibits on campus and oversees the university's permanent art collection. They also schedule and implement student art exhibits and purchase art work for the permanent collection. Open to all interested students.

Art History Association
Any student interested in the field of art history is encouraged to join this organization. Promoting scholarly research in art history; fostering the intelligent understanding of art, art history and other cultures; and promoting professional news and information about art and art history are some of the purposes of this group.

Art Students Guild
The Art Students Guild's purpose is to elevate the standards and quality of art experiences and provide opportunities for exposure to art related fields. Members must attend and participate in a majority of the guild functions.

Association for Supervision and Curriculum Development
Mansfield University ASCD, a group drawing membership from the various education departments at the university, fosters a commitment to the advancement of educational practices for all children.

BACCHUS
Boost Alcohol Consciousness Concerning the Health of University Students is a national peer education network that attempts to increase student awareness concerning healthy lifestyles through responsible decision-making, especially when it comes to the appropriate and legal use of alcohol.

Badminton Club
The Badminton Club is made up of MU students and faculty who have a common interest in competitive badminton. Club members represent the school at several regional tournaments each year and the Mansfield Club hosts a tournament of its own each February.

Best Buddies
The mission of Best Buddies is to provide an opportunity for college students and persons with mental retardation to become friends. This is accomplished by facilitating social contact by organizing group outings and requiring on-going one-to-one activities for College Buddies and Buddies.

Black Student Union (BSU)
BSU is an academic and social support group for students interested in the promotion of the culture and interest of African-Americans, Hispanics, or other students of African descent. Activities are designed to encourage and motivate students to realize personal potential, achieve academically, and increase cultural knowledge.

Boxing Club
This club provides an opportunity for conditioning and competition that helps promote physical and mental well-being.

Cedarcrest Hall Council
The "Crest Council" is the governing body for Cedarcrest Manor, a popular co-ed residence hall. The group is open to all residents of Cedarcrest Manor and consists of four officers, representatives from each floor, and residents who want to make a difference.

Cheerleaders
Cheerleading is open to any student with an overall 2.00 QPA. Up to 16 women and 16 men are chosen through tryouts. The football squad is selected in March and the basketball squad in October.

Chemistry Club
The Chemistry Club gives students an opportunity to become better acquainted with the field of chemistry. Members and the student body benefit from guest speakers, films, projects, and special programs.

Computer Science Club
This club is open to any student with an interest in computers. It will enhance the opportunities available to the student through guest speakers, field trips, and participation in the Pennsylvania Association of Computer and Information Science Educators (PACISE).

Council for Exceptional Children
The student chapter of Council for Exceptional Children is affiliated with the national conference. Membership in the chapter is open to all college students, especially those interested in working with exceptional children. There is a membership fee for joining on the national level, which includes a monthly journal, but it is free to all students for the local level. Members have opportunities to meet and talk with professionals in the field. Specific activities are planned which promote the pre-professional development of the members. Group activities include dances for individuals in residential facilities, state and national conferences, special Olympics, and guest speakers.

CATS (Creative Arts Therapy Sounding)
The Music Therapy Organization sponsors workshops, guest speakers, and representation at conferences in support of the profession of music therapy. It is affiliated with the

National Association for Music Therapy Students and is open to anyone interested in music therapy.

Criminal Justice Club
This club's purpose is to promote interest and understanding of the criminal justice system. The organization, open to all interested students, provides the opportunity for members to meet with professionals in the areas of law enforcement, corrections, and the court system.

Debate Association
This organization provides extracurricular intercollegiate competition in the area of policy debate. Members research the year's current topic and travel to other colleges to compete. Any full-time Mansfield University student in good academic standing may participate.

Delta Zeta Sorority
Delta Zeta sorority members have the opportunity to interact with peers, strengthen self-confidence, achieve academic excellence, develop leadership potential, and help others through national and local philanthropies. Delta Zeta supports all Anti-Hazing Laws.

Economics Club
The Economics Club helps develop interest in, and stimulate conversation about, economics on the local, state, national and international levels.

El Club de Espanol
El Club de Espanol is an organization devoted to the stimulation of interest in the Spanish language and culture. Its many activities included field trips, movies, and dinners. Anyone is welcome.

Eta Beta Tau
A co-ed, fine arts social service fraternity, Eta Beta Tau is involved in many of the social activities that occur on campus.

Fellowship of Christian Athletes
Open to all, FCA's mission is to present to athletes, coaches, and all whom they influence, the challenge and adventure of receiving Jesus Christ as savior and lord, serving Him in their relationships and in the fellowship of the church.

Flashlight
This is the student newspaper and is published weekly by Mansfield University students. A wide variety of service opportunities are available for staff members including reporting, typing, designing, selling and taking photographs. Additional staff are always welcome.

French Club
An organization that helps stimulate the ability and interest in the French language, literature and culture.

Geography Club
The Geography Club furthers the diverse interests of geography majors, minors and other interested students. The club sponsors presentations and trips related to regional planning, environmental science and other aspects of geography.

Geology Club
The Geology Club promotes geology in the Mansfield area. It is open to all students and faculty. The Geology Club sponsors a variety of field trips and speakers. Members attend and participate in professional meetings.

Golf Club
This club provides an opportunity to stimulate interest in the sport of golf and outlets for those persons seeking to play golf at a competitive level.

Hemlock/Pinecrest Hall Council
This council consists of representatives of both residence halls. Meetings are held weekly and are open to all Hemlock and Pinecrest residents. They host semi-formals, picnics, parties, and tournaments for the residents.

Honors Association
Membership is open to any student in good standing in the university's Honors Program. Its purpose is to plan and implement the social and cultural events of the association.

Interfraternity Council (IFC)
The Inter-Fraternity Council is the governing body of the social fraternities. Its purpose is to promote the best interests of the fraternity system and the university. IFC makes binding rules concerning fraternity policy, and enforces rules for rushing, pledging, intramurals, and scholarships. IFC promotes the spirit of cooperation among all fraternities and the highest ideals of fraternalism.

International Association of Jazz Educators
The purpose of this organization is to bring together those interested in jazz, rock and popular music and to provide opportunities for musical experiences and growth. IAJE is a sponsor of the annual MU Jazz Festival.

Judo Club
The objective of this club is to teach judo and provide opportunities to learn and practice judo.

Kappa Kappa Psi
This is an honorary band fraternity dedicated to the promotion of and respect for college and university bands. The Mansfield chapter (Epsilon Iota) actively supports the band programs and the university through various activities. Membership is by invitation.

Kappa Phi
Kappa Phi is a sisterhood strongly rooted in Christ. We are a nondenominational group of Christian university women. Our purpose is to provide opportunity and challenge to serve Christ through our lives.

Lambda Alpha Epsilon
Lambda Alpha Epsilon is open to any student who is interested in the criminal justice field, either in the study of or employment in such areas.

Lambda Chi Alpha
Numerous men have shared fraternity life in the Beta Omega chapter of Lambda Chi Alpha. The membership is actively involved on campus and throughout the community. Many hold responsible positions in other clubs and organizations.

Lambda Sigma
Lambda Sigma is a national honor society for sophomore men and women dedicated to fostering leadership, scholarship, fellowship, and the spirit of service among college students. They promote the interests of Mansfield University. The Alpha Epsilon chapter offers students opportunities for personal growth, leadership experience, and a sense of involvement in MU.

Latino Student Organization
LASO's purpose is to promote interest and awareness of the rich and diverse Hispanic/ Latino culture and, through a broad range of activities, further MU's commitment to diversity and multi-culturalism.

Laurel Hall Council
LHC is the governing body for Laurel Manor and is responsible for various programming activities and hall improvement suggestions. LHC works in cooperation with ARHC. Each floor elects two representatives to the council each semester. Officers are elected from within the hall for a term of two semesters.

Mansfield Activities Council (MAC)
MAC plans programs and activities for the entire university community, including movies, concerts, coffeehouses and cultural affairs, as well as feature arts and forums. MAC also assists other university organizations in programming.

Mansfield International Student Organization
This club was created by the MU international students. While membership is open to all interested students, American students are especially encouraged to join. With the rich and diverse cultures of its members from all over the world, the organization is unique and has much to offer educationally, socially and culturally.

Maple Hall Council
Maple Hall Council benefits Maple Hall and the campus. The council consists of representatives living on each male and female floor in the building. They plan activities, fund raisers and represent students in the campus and residence hall decision-making process.

Mathematics Club
The purposes of the Math Club are to promote communication among students and faculty and to encourage participation in activities related to mathematics. Activities sponsored by the Math Club include field trips, speakers, and social events in addition to assisting the department in various ways.

MU Dramatists
This organization was created to stimulate interest in the field of dramatics and to encourage the creative ability of its members.

Music Educators National Conference
MENC helps promote contact between students interested in the field of music education and music educators on the local, state and national levels.

Music merchandising Club
Promoting a better understanding of the music industry; facilitating interaction between club members and the music industry and bringing professionals to campus who work in the music industry are some of the purposes of this club.

National Alliance of Saxophonists
NASA is a student run organization that is part of a national organization which operates to further the composition and performance of saxophone music.

Native American Student Union
The Native American Students Union (NASU) is open to students who are interested in learning, participating and promoting Native American cultures. The NASU participates in forums, trips and events, such as bringing in Native American dancers and speakers.

NT-AEYC (Northern Tier Association. for Education of Young Children)
NT-AEYC is a national organization with a local MU chapter. The objective of the organization is to provide information for early childhood educators which includes ages birth to eight years. Information includes teaching strategies and seminars on current topics that influence early childhood education as well as service opportunities. Finally, NT-AEYC strives to provide professional growth and strong leadership characteristics to its members. The organization is open to anyone interested in early childhood education.

Panhellenic Council
Panhellenic Council is the governing body for all sororities. It is executive, legislative, and judicial. The branches compile the rules and regulations by which the sororities abide. Panhellenic Council sponsors Rush Week, the Scholarship Cup, and the Panhellenic Handbook. In cooperation with the Inter-Fraternity Council (IFC), Panhellenic co-sponsors Greek Week.

Phi Beta Lambda
Phi Beta Lambda is a national business fraternity associated with Future Business Leaders of America (FBLA). Phi Beta Lambda operates Greek T's and More, a business on campus which provides members with experience and understanding of how a business operates. Phi Beta Lambda is also responsible for Career Seminar Day, a major annual event on campus.

Phi Beta Sigma
Phi Beta Sigma fraternity embraces the principles of brotherhood, scholarship, and service which are crystallized in the fraternity motto "Culture for service and service for humanity."

Phi Mu Alpha Sinfonia
Phi Mu Alpha Sinfonia is a national professional music fraternity for men. The Beta Omicron Chapter has been broadening the musical horizons of MU since 1931. Phi Mu commissions new works of music, sponsors recitals, and performs throughout the campus and Mansfield communities. The Beta Omicron chapter has strong ties with the other Phi Mu Alpha chapters in our area, and spends at least one weekend a semester working together with other chapters. We are open to all students, and strongly encourage non-music majors with an interest in music to join. Through projects, activities, and services, Phi Mu strives "to instill in all people an awareness of music's important role in the enrichment of the human spirit."

Phi Sigma Pi
Phi Sigma Pi has the distinction of being Mansfield's first fraternity. This national honor fraternity is described as being one-third academic, one-third service, and one-third social. To pledge Phi Sigma Pi, one must have a 2.95 cumulative grade point average and be at least a second semester freshman. Phi Sigma Pi welcomes any man or woman who is concerned with the ideals of knowledge, training, and friendship.

Philosophy Club
Promoting philosophical activities on campus, the Philosophy Club sponsors trips, lectures, panel discussions and films on a broad variety of subjects. It also publishes Synapse, a student magazine of philosophy and opinion that has appeared annually since 1979.

Physics Club
Some of the objectives of the members of the club are to advance the level of physics knowledge and to provide a forum for discussing recent physics discoveries, careers in physics and other related topics.

Pi Kappa Delta
Pi Kappa Delta's purpose as a fraternity is to stimulate progress in and to further the interests of intercollegiate speech activities and communication in an effort to provide functional leadership training for life.

Pre-Law Association
Our primary purpose is to provide information to students who plan to attend law school. Guest speakers and field trips benefit both members and nonmembers.

Psi Chi
Psi Chi is the national honor society in psychology. It provides academic prestige to its initiates by the mere fact of membership. To be considered, one must be a psychology or human relations major, have a minimum of a "B" average, and 9 semester credit hours in psychology.

Psychology Club
The purpose of this organization is to advance interest in and knowledge of psychology and to encourage, stimulate, and maintain scholarship of the individual members in all fields.

Public Relations Society
The Public Relations Society is open to, and interested in all students. We offer students the chance to generate creative ideas and put those ideas into action, to better our community on and off campus.

Saddle Club
This club is open to all students from beginning to advanced riding levels. Grooming, saddling, and trail riding are club activities. We also participate in field trips and other activities. Activities are based on the interests of the members.

Shinko-Rhu Karate club
Karate is an art form and the club, through the sharing of information on the history of martial arts, promotes the values of self-discipline, positive attitudes, health and high moral purposes.

Sigma
Service, to both the university community and community at large, and strengthening the relationships between the two are the primary purpose of this organization.

Sigma Alpha Iota
Sigma Alpha Iota is an international music fraternity for women whose ideals are high standards of musicianship, scholarship, sisterhood, and character. Any woman in the music department who is under private musical instruction, has at least 6 credits in music, has a 2.5 academic average, and a "B" in her major applied area, is eligible to pledge membership.

Ski Club
The Ski Club's interest is in the pursuit of the sport and its intrinsic values such as recreation, exercise, the exhilaration of being outdoors and the developing of a life-long physical and social activity. The Ski Club organizes weekly trips to local ski areas as well as a week long trip to a major U.S. ski area over semester or spring break. The club negotiates special lift ticket rates, provides transportation, and operates a fully equipped, up to date, ski rental shop.

Social Work Club
The Social Work Club is open to all MU students. It is an integral part of the department and seeks to foster dialogue between the faculty and the students. The club meets regularly to determine members' attitudes and feelings regarding policy, requirements, curriculum. It is a vehicle through which students are exposed to the professional world of human services in general and professional social work in particular.

Student Dietetic Association
This organization is open to anyone interested in dietetics and/or food service management. Members learn about their future professions through invited speakers, educational field trips and bi-monthly meetings. Members of Mansfield S.D.A. are also members of the Pennsylvania Student Dietetic Association and are eligible to be members of the American Dietetic Association.

Student Government Association
The Student Government Association is the elected governing body representing Mansfield's students. SGA is comprised of a senate, with one senator for each 100 students, and an executive committee, consisting of a president and a vice president. This body represents and promotes student issues and concerns with the faculty and administration and is a good way to become involved.

Student PSEA
To develop among college students preparing to teach: (a) an understanding of the teaching profession through participation in the work of the local, state, and national education associations; (b) to provide leadership training and experiences; (c) to plan activities that can be coordinated with other existing chapters' programs; (d) to provide opportunities to observe and work with citizen groups for the welfare of children and public education; (e) to seek actively higher standards of teacher education; (f) to stress the importance of careful selection of persons admitted to teacher education institutions with emphasis on character, personality, and scholarship.

Students for a Free Tibet
Increasing awareness and compassion for the exiled, imprisoned Tibetan people and educating the university community of the plight of the Tibetan people under occupation are the purposes of this organization.

TV Club
Purposes of the TV Club include exposing members to the world of TV and TV production, promoting an exchange of ideas with respect to TV production and promoting a cooperative attitude between faculty members and students in the Communications/Theatre Department.

Tau Beta Sigma
Tau Beta Sigma is a national honorary band sorority that promotes and supports collegiate bands and band activities. Opportunities exist for members to gain in such areas as leadership, musical achievement, and promotion of worthwhile projects. Eligibility is based on a QPA of at least 2.5 and participation in the Concert Wind Ensemble, Symphonic Band, Jazz Band, or Orchestra.

Travel Club
The purpose of this organization is to provide a learning travel experience, once a semester, and to gather knowledge about the process of planning group travel.

WNTE-FM
Music Radio 89 is dedicated to providing educational, informative and entertaining programming for the campus and community. Radiating at 89.5 megacycles, WNTE is a 115 watt educational FM station, licensed by the Federal Communications Commission. With main studios and offices located in the lower level of South Hall, WNTE welcomes all interested students to join in the fun of broadcasting.

Zeta Phi Beta
Zeta Phi Beta is a sorority that promotes leadership, scholarship, and community service.

Zeta Tau Alpha
Zeta Tau Alpha is a women's social fraternity. Zetas always strive for academic excellence, while maintaining a high social standard of conduct. Individual interests include a variety of well rounded activities: sports, music, cheerleading, student government, and community service, among others. ZTA is also proud to support the Susan G. Komen Breast Cancer Foundation.

VII. ACADEMIC PROGRAMS

Mansfield University offers 77 four-year baccalaureate programs in the liberal arts and professional studies, 42 minors, and 12 two-year associate degree programs as well as 6 masters degree programs.

Associate Degree Programs

- Accounting
- Business Administration
- Computer Information Systems
- Criminal Justice Administration
- Geography, Mapping Technology
- Liberal Studies
- Media Specialist
- Professional Writing
- Radiology Technology
- Respiratory Therapy
- Social Welfare
- Travel and Tourism

Bachelor Degree Programs

- Art Education
- Art History
- Art, Studio Art
- Biology (B.A.)
- Biology (B.S.)
- Biology, Cell and Molecular
- Biology, Education
- Biology, Environmental Science
- Biology, Fisheries
- Biology, Medical Technology
- Business Administration, Accounting
- Business Administration, General Business
- Business Administration, International Business
- Business Administration, Marketing
- Business Administration, Travel and Tourism
- Chemistry
- Chemistry, Biochemistry
- Chemistry, Education
- Computer Information Systems, Computer Science
- Computer Information Systems, Information Systems
- Criminal Justice Administration
- Economics (B.A.)
- Economics (B.S.)
- Elementary Education
- English
- English, Education
- Exceptional Persons
- French
- French, Education
- Geography (B.A.)
- Geography (B.S.)
- Geography, Environmental Science
- Geography, Regional Planning
- General Science
- German
- German, Education
- History
- Liberal Studies
- Mass Communications, Broadcasting
- Mass Communications, Journalism
- Mass Communications, Performance Arts
- Mass Communications, Public Relations
- Mass Communications, Theatre Arts Management
- Mathematics (B.A.)
- Mathematics (B.S.)
- Mathematics, Actuarial Science
- Mathematics, Education
- Music
- Music, Education
- Music, Elective Studies in Business
- Music, Music Therapy
- Music, Performance
- Nursing
- Nutrition and Dietetics
- Philosophy (B.A.)
- Philosophy (B.S.)
- Physics
- Physics, Pre-Engineering
- Physics, Education
- Political Science
- Political Science, International Studies
- Psychology
- Psychology, Human Resource Management

Social Studies, Earth and Space Science
Social Studies, Economics
Social Studies, Geography
Social Studies, History
Social Studies, Political Science
Social Studies, Psychology
Social Studies, Sociology/Anthropology
Social Work
Sociology/Anthropology
Spanish
Spanish, Education
Special Education
Speech Communication
Theatre

Minors

Accounting
African-American Studies
Anthropology
Art
Biology
Business Administration
Canadian Studies
Chemistry
Computer Science
Creative Writing
Criminal Justice Administration
Economics
English Literature
Environmental Studies
French
General Computing
German
Geography
Geology
History
Honors
Human Development
Information Systems
International Studies
Latin American Studies
Marketing
Mathematics
Music
Native North American Studies
Philosophy
Physics
Political Science
Professional writing
Psychology
Regional Planning
Social Welfare
Sociology
Spanish
Statistics
Theatre
Travel and Tourism
Women's Studies

ANTHROPOLOGY

See Social Work, Anthropology, and Sociology

ART

Associate Professors Carter (chairperson), Hamwi, Kutbay
Assistant Professor Loomis

The Art Department offers four degrees: B.S.E. in Art Education, B.S. in Studio Art, B.A. in Art History, and M.Ed. in Art Education at the Graduate Level. The department also has certification for Art Educators.

Art Education is structured to guide prospective teachers to meet general education requirements, to develop skills in basic studio areas, and to provide a rich background in art history, aesthetics, theory, psychology, and the philosophy of art education. Upon satisfactory completion of the program, the graduate is qualified to teach art in the elementary and secondary schools.

The following courses should be taken during the first year: ARH 102 - Survey of Art; PSY 101 - General Psychology; Art 241 - Color and Design; and Art 210 - Drawing.

Art education majors begin their methods courses in their junior year of study and conclude these educational experiences with student teaching during their senior year. Education majors must complete all basic studio and methods courses before student teaching. The Art Program offers professional experiences throughout the four year program.

The Studio Art Program offers hands-on experiences in several media, including concentrations in drawing, painting, printmaking, ceramics, jewelry, sculpture, fibers and crafts. These courses are balanced with academic courses in art and general liberal arts courses. Students have opportunities to display their works on and off campus. Potential occupations range from being a freelance artist to working for a design firm. Large and small companies and government agencies have artist designers on their staffs. The growing field of video uses artists and there are many careers in medical, scientific and other types of technical illustration. By choosing courses in computers, business, or the sciences, students can further multiply their career options.

The Art History Program offers students a background in the historical and cultural origins of the visual arts, from cave painting to computer art. Some courses include Ancient and Medieval Art, Art of the Renaissance, History of Prints, Oriental Art, History of African-American Art, and Native Arts of the Americas. This program is primarily preparation for graduate school, but with close advisement in selecting courses it also prepares its students for work in galleries, museums, writing in the art field, and other related careers.

The M. Ed. in Art Education is intended to balance academic and studio studies with an emphasis on research which concludes with each individual submitting a visual portfolio and a written thesis which explores a certain aspect of art education. The program encourages a broad interpretation of art education that encompasses the role of art in people's lives at all ages and the value of art to society. See the Graduate Catalog for detailed program information.

A minor in Art consists of 18 credits hours designed to give the student a foundation in art theory and skills. Required courses are listed below.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Art Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ARE	388	History and Philosophy of Art Education	3
ARE	390	Art Curriculum and Teaching in Elementary Education	3
ARE	393	Art Curriculum and Practical Application in Secondary Schools	3
ARE	400	Student Teaching	12
ARH	102*	Survey of Art	3
ARH	331	History of Modern Art	3
ARH	xxx	Choice	3
ART	201	Painting	3
ART	210	Drawing	3
ART	231	Printmaking	3
ART	241*	Color and Design	3
ART	251	Jewelry	3
ART	261	Waterbase Media	3
ART	271	Ceramics	3
ART	281	Sculpture	3
ART	295	Crafts	3
ART	300	Visual Studies in Aesthetic Experiences	3
ART	345	Fibers	3
ART	365	Computer Art	3
ART	xxx	Art Electives	6
ED	302	Instructional Technique	2
ED/PSY	305	Educational Psychology	3
PSY	101*	Introduction to General Psychology	3
		Total semester hours	80

Art History Major (B.A.): 120 s.h.

ARH	102	Survey of Art	3
ARH	xxx	Choice	21
ART	300	Visual Studies in Aesthetic Experiences	3
ART	403	Seminar	1
ART	404	Special Problems in Art	3
ART	xxx	Studio Art Electives	9
		Total semester hours	40

Studio Art (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ARH	102*	Survey of Art	3
ARH	325	History of Modern Art	3
ARH	xxx	Electives	9
ART	201	Painting	3
ART	210	Drawing	3
ART	231	Printmaking	3
ART	241*	Color and Design	3

ART	251	Jewelry	3
ART	261	Waterbase Media	3
ART	271	Ceramics	3
ART	281	Sculpture	3
ART	295	Crafts	3
ART	300	Visual Studies in Aesthetic Experiences	3
ART	345	Fibers	3
ART	365	Computer Art	3
ART	403	Seminar	1
One area of concentration			18
	xxx	I-Drawing, Painting & Printmaking II-Ceramics, Jewelry, Sculpture & Fibers III-Advertising Art	
PSY	101*	Introduction to General Psychology	3
		Total semester hours	73

PROGRAM REQUIREMENTS: MINOR

Art Minor: 18 s.h.

ARH 101, ART 210, 241 and 9 s.h. in Art by advisement.

BIOLOGY

Professors Flesch (chairperson), Maris, Meyer, Soderberg
Associate Professors Goff, Kirby, Sternick
Assistant Professor: Hensley, Vore

The Department of Biology offers three degrees and four concentrations leading to the baccalaureate degree. The department also offers a minor in biology.

Programs leading to either the Bachelor of Arts or the Bachelor of Science degree give a solid liberal arts background and a foundation of science courses in botany, zoology, cell biology, ecology, chemistry, physics and mathematics. With close advisement you may concentrate in any one of several eras: botany, physiology, ecology, and cellular biology, among others. These programs meet the minimum requirements for medical schools. The biology program is excellent preparation for graduate school. Many biology graduates become technicians in hospitals and research laboratories, others go into sales positions with medical and pharmaceutical supply companies, while still others find employment in the environmental and ecological fields.

Those individuals interested in preparation for a career in medicine may meet the minimum requirements for medical, dental, chiropractic, veterinary, and physical therapy schools with proper course selection under both the B.A. and B.S. degrees. Mansfield University has an agreement with the Philadelphia College of Osteopathic Medicine to accept up to 10 students per year if specific criteria are met by the student.

The cell and molecular biology concentration is designed to educate students in contemporary biology emphasizing molecular interactions, cell development and functions. This program has a strong emphasis on chemistry. Students learn to manipulate and use a variety of cell and molecular techniques important in present day research. Students selecting this track are qualified to enter the job market in biotechnology, pharmaceuticals, medicine, and the molecular biology of the environment.

The environmental track is for students interested in environmental issues. Students receive a general over-view of the field as well as practical skills. The program is designed to train scientists to look at environmental problems in an interdisciplinary way. Students will receive a solid base in the environmental field as well as related courses in the arts and sciences.

Mansfield University is the only university in Pennsylvania to offer a degree with a fisheries concentration and one of only 12 in the U.S. We have placed interns and graduates all over the U.S., establishing Mansfield as a major center for undergraduate fisheries education. This degree program provides extensive course work in three major areas of fisheries science: aquaculture, fisheries biology, and fisheries management. Unique features of the program include summer internship and field courses and a required independent research project. Cooperative education and research agreements with the Research and Development Laboratory of the U.S. Department of Interior and the Pennsylvania Fish and Boat Commission are an integral part of the fisheries program at Mansfield University. Graduates of the program meet the requirements for certification as an Associate Fishery Scientist by the American Fisheries Society.

The medical technology program includes three years of academic study on campus and one year (50 weeks) of clinical study at an approved hospital school of medical technology. The program prepares you to sit for the exam to become a registered medical technologist. Courses at Mansfield range from general education, chemistry, biology, physics and mathematics. Clinical studies include clinical microscopy, hematology, and histological techniques. The student must apply to the hospital schools and be accepted by the hospital for the year of clinical study. Mansfield University has an affiliation with the Robert Packer Hospital School of Medical Technology in Sayre, Pennsylvania. If you should choose not to do a clinical year or are not accepted to a hospital school, the program is designed so that you may complete a fourth year at Mansfield and receive a B.S. in biology degree. This curriculum is designed for capable and qualified students interested in a paramedical career. Most jobs in this profession are in hospitals, but there are some opportunities in industrial medical research. Persons with a four-year degree in this area have opportunities for career growth in related management positions.

The secondary education (B.S.E.) program prepares the student to enter the teaching profession with certification in both biology and, with proper advisement, general science. Biology education majors are dual advised with the education department. Refer also to the education department information.

The minor in biology is designed to broaden and expand the knowledge of students especially those in biology-related curricula. The requirements for a minor are a total of at least 20 hours of semester credit.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Biology (B.A.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110	Zoology	4
BI	130	Botany	4
BI	350	Ecology	4
BI	370	Cell Biology	4
BI	496	Seminar	1
BI	300/400	Electives	15
CHM	111*	General Chemistry I	4

CHM	112*	General Chemistry II	4
GEL	122*	Historical Geology	3
MA	231*	Calculus I	4
PHL	201*	Introduction to Philosophy	3
PHY	191	Physics I	4
PHY	192	Physics II	4
		Total semester hours	59

Biology (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110*	Zoology	4
BI	130	Botany	4
BI	310-319	Choice	
	or		3-4
BI	330-339	Choice	
BI	350	Ecology	4
BI	351-359	Choice	3-4
BI	370	Cell Biology	4
BI	371-379	Choice	
	or		2-4
BI	470-471	Choice	
BI	390-399	Choice	
	or		
BI	450	Internship	
	or		1-12
BI	470-471	Choice	
BI	496	Seminar	1
BI	300/400	Electives	7-11
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
MA	231*	Calculus I	4
PHY	191	Physics I	4
PHY	192	Physics II	4
	300/400	Electives	9
		Total semester hours	71-90

Biology Education (B.S.E.): 130 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110	Zoology	4
BI	130*	Botany	4
BI	310	Physiology	4
BI	350	Ecology	4
BI	370	Cell Biology	4
BI	371	Microbiology	4
BI	372	Genetics	3
BI	496	Seminar	1

CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Techniques	2
ED	302	Instructional Technology	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3
ED	313	Teaching of Science in Secondary Schools	3
ED	400	Student Teaching	12
ED	410	Historical and Current Issues in Education	3
GEG	111*	Physical Geography	
	or		3
GEG	222*	Environmental Issues	
HST	201*	American History Through the Civil War	
	or		3
HST	202*	American History - Reconstruction to the Present	
MA	125*	Introductory Statistics	
	or		3-4
MA	232*	Calculus II	
MA	231*	Calculus I	4
PHY	191*	Physics I	4
PHY	192	Physics II	4
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
		Total semester hours	106-107

Biology, Cell & Molecular Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110*	Zoology	4
BI	130	Botany	4
BI	310	Physiology	
	or		3-4
BI	330	Plant Physiology	
BI	350	Ecology	4
BI	370	Cell Biology	4
BI	371	Microbiology	4
BI	372	Genetics	3
BI	373	Genetics Research	2
BI	374	Immunology	3
BI	376	Animal Histology and Basic Micro techniques	3
BI	300/400	Electives	2-3
BI	496	Seminar	1
BI	497	Independent Study	2
CHM	111*	General Chemistry I	4

CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
CHM	321	Physical Chemistry I	4
CHM	341	Biochemistry	4
PHY	191	Physics I	4
PHY	192	Physics II	4
MA	231	Calculus I	4
		Total semester hours	76-78

Biology, Environmental Science Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110	Zoology	4
BI	130*	Botany	4
BI	310-319	Choice	3-4
BI	330-339	Choice	3
BI	371-379		
	or	Choice	2-4
BI	470-471		
BI	350	Ecology	4
BI	351	Limnology	3
BI	370	Cell Biology	4
BI	390	Biostatistics and Experimental Design	3
BI	496	Seminar	1
BI	497	Independent Study	1
BI	498	Seminar in Environmental Science	1
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
GEG	222*	Environmental Issues	3
GEG/GEL	340	Map and Air Photo Interpretation	4
MA	231*	Calculus I	4
PHY	191	Physics I	4
PHY	192	Physics II	4
	300/400	Elective	3
Select Four Courses:			12-14
CHM	311	Quantitative Analysis (4)	
CHM	332	Instrumental Analysis (4)	
GEG	312	Weather and Climate (3)	
GEG	321	Geomorphology (3)	
GEG/GEL	420	Remote Sensing (3)	
GEL	330	Hydrology (3)	
		Total semester hours	84-89

Biology, Fisheries (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110	Zoology	4

BI	111	Fish Culture I	3
BI	112	Fish Culture II	3
BI	130*	Botany	4
BI	314	Ichthyology	3
BI	315	Fish Pathology	3
BI	350	Ecology	4
BI	351	Limnology	3
BI	352	Management of Small Impoundments	3
BI	353	Management of Streams and Large Impoundments	3
BI	370	Cell Biology	4
BI	371	Microbiology	4
BI	392	Fish Management	3
BI	450	Internship	6
BI	491	Aquaculture Research	2
BI	496	Seminar	1
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	311	Quantitative Analysis	4
CHM •	332	Instrumental Analysis	4
MA	231	Calculus I	4
PHY	191	Physics I	4
PHY	192	Physics II	4
		Total semester hours	82

Medical Technology (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110*	Zoology	4
BI	310	Physiology	4
BI	370	Cell Biology	4
BI	371	Microbiology	4
BI	374	Immunology	3
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
CHM	311	Quantitative Analysis	4
MA	231*	Calculus I	4
PHY	191	Physics I	4
	300/400	Clinical Education/ off campus	32
		Total semester hours	80

PROGRAM REQUIREMENTS: MINOR

Biology Minor: 20 s.h.

BI 110, 130, 370 and 8 s.h. biology electives at the 200 and above level.

BUSINESS and ECONOMICS

Professors Kutty, Solan, Yacovissi
Associate Professors Carpenter, Gaballa, Ghods, Mitchell, Welch (Chairperson)
Assistant Professor Havalchak

Most aspects of life are touched in some way by the business world: retailing, education, banking services, real estate, health care, and many others. Some of the career choices of Mansfield University Business and Economics graduates are accountants, CPA, CMA, professional salespersons, bank managers, government economists, financial planners, advertising executives, health service administrators, hotel sales and marketing managers, and meeting and conference planners. If these careers sound interesting, the study of Business and Economics at Mansfield University will open up the world of business to you.

The department offers both associate degree and baccalaureate degree programs in business and economics. The blend of general education and professional business education provides students with much needed skills, knowledge, values and ethics needed in today's business environments.

Concentration within the business administration degree include: Accounting, General Business, International Business, Marketing, and Travel and Tourism. The Accounting emphasis includes accounting issues as well as issues of policy and ethics. Students entering the General Business emphasis are advised to discuss their goals with their academic advisor who will help them choose courses that will prepare them to be competitive in their specific area of business. The International Business emphasis builds understanding and appreciation for the global environment. The Marketing emphasis takes a solid business core as a foundation and adds a variety of marketing courses which prepare students for career opportunities in marketing related disciplines.

The Travel and Tourism Program is the only one of its kind in the state and one of only a few in the nation. It combines courses in business, management, foreign language and travel and tourism. It is excellent preparation for executive track careers in the travel, tourism, hospitality and leisure professions. Opportunities include tourism promoter, international or domestic travel and tourism agency, meeting convention and special events planner and manager, destination marketer, hotel sales and marketing, tour operations and management, convention and visitors bureaus, resorts management, and employment with the airlines and airports.

The two degrees in Economics are designed to provide a strong quantitative and business background. The B.S. degree has a business component and is designed to facilitate a double major in Economics and Business Administration. The B.A., in keeping with academic policy, requires a minor program. A wide variety of minors is available to complement the B.A. in Economics.

There is flexibility built into the design of the four-year degree programs to permit internships and minor studies. There is room to meet the individual needs and interest of students in the course work they select.

The Department offers minors in Accounting, Business Administration, Marketing, and Travel and Tourism. The Department also offers two-year degree programs in Accounting, Business Administration, Travel and Tourism, and Economics. The two-year programs are designed to be transferable to the four-year track should students decide to pursue the four-year degree.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Business Administration, Accounting Concentration (B.S.): 128 s.h.
(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
ACC	310	Intermediate Accounting I	3
ACC	311	Intermediate Accounting II	3
ACC	320	Advanced Accounting I	3
ACC	350	Cost Accounting I	3
ACC	400	Auditing	3
Accounting Sequence (300/400 level)			
ACC	300/400	Electives	
ACC	300/400	Electives	6
BUS	230	Management Principles	3
BUS	301	Introduction to Finance	3
BUS	330	Marketing	3
BUS	349	Quantitative Business Analysis	3
BUS	350	Production Management	3
BUS	402	Corporate Finance	3
BUS	410	Business Law I	3
BUS	441	Financial Statement Analysis	3
BUS	451	Behavioral Approach to Management	3
BUS	490	Business Policy	3
CIS	203	Software Business Applications	3
ECO	101*	Principles of Macroeconomics	3
ECO	102*	Principles of Microeconomics	3
ECO	311*	Money and Banking	3
MA	125*	Introduction to Statistics	3
MA	170*	Fundamentals of Calculus	
	or		3-4
MA	231*	Calculus I	
PHL	202*	Contemporary Moral Problems	3
SOC	101*	Introduction to Sociology	3
		Total semester hours	81-2

Business Administration, General Business Concentration (B.S.): 128 s.h.
(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
ACC	315	Managerial Accounting	
	or		3
ACC	350	Cost Accounting I	
BUS	230	Management Principles	3
BUS	301	Introduction to Finance	3
BUS	302	Managerial Decision Making	3
BUS	330	Marketing	3
BUS	349	Quantitative Business Analysis	3

BUS	350	Production Management	3
BUS	402	Corporate Finance	3
BUS	410	Business Law I	3
BUS	441	Financial Statement Analysis	3
BUS	451	Behavioral Approach to Management	3
BUS	490	Business Policy	3
CIS	203	Software Business Application	3
	300/400	Major Related Electives	12
ECO	101*	Principles of Macroeconomics	3
ECO	102*	Principles of Microeconomics	3
MA	125*	Introductory Statistics	3
MA	129*	Finite Mathematics	3
MA	170*	Fundamentals of Calculus	
	or		3-4
MA	231*	Calculus I	
SOC	101*	Introduction to Sociology	3
		Total semester hours	75-6

Business Administration, International Business Concentration (B.S.): 128 s.h.
(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
ACC	315	Managerial Accounting	
	or		3
ACC	350	Cost Accounting I	
BUS	230	Management Principles	3
BUS	301	Introduction to Finance	3
BUS	321	Environment and Management of International Business	3
BUS	330	Marketing	3
BUS	333	International Financial Management and Economics	3
BUS	349	Quantitative Business Analysis	3
BUS	350	Production Management	3
BUS	402	Corporate Finance	3
BUS	403	Business and American Foreign Policy	
	or		3
PSC	310	U.S. Foreign Policy	
BUS	410	Business Law I	3
BUS	422	International Marketing	3
BUS	441	Financial Statement Analysis	3
BUS	451	Behavioral Approach Management	3
BUS	490	Business Policy	3
CIS	203	Software Business Applications	3
ECO	101*	Principles of Macroeconomics	3
ECO	102*	Principles of Microeconomics	3
ECO	333	International Economics	3
MA	125*	Introduction to Statistics	3
MA	129*	Finite Mathematics	3

MA	170*	Fundamentals of Calculus	
	or		3-4
MA	231*	Calculus I	
	International Studies Electives		3
		Total Semester Hours	75-6

Business Administration, Marketing Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
ACC	315	Managerial Accounting	
	or		3
ACC	350	Cost Accounting I	
BUS	230	Management Principles	3
BUS	301	Introduction to Finance	3
BUS	330	Marketing	3
BUS	349	Quantitative Business Analysis	3
BUS	350	Production Management	3
BUS	402	Corporate Finance	3
BUS	410	Business Law I	3
BUS	415	Marketing Management	3
BUS	441	Financial Statement Analysis	3
BUS	451	Behavioral Approach Management	3
BUS	490	Business Policy	3
CIS	203	Software Business Applications	3
ECO	101*	Principles of Macroeconomics	3
ECO	102*	Principles of Microeconomics	3
MA	125*	Introduction to Statistics	3
MA	129*	Finite Mathematics	3
MA	170*	Fundamentals of Calculus	
	or		3-4
MA	231*	Calculus I	
SOC	101	Introduction to Sociology	3
	Marketing Sequence (300-400 level)		12
		Total Semester Hours	75-6

Business Administration, Travel and Tourism Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
BUS	160	Small Business Management	3
BUS	230	Management Principles	3
BUS	330	Marketing	3
BUS	332	Promotion in Marketing	3
BUS	370	Salesmanship	3
BUS	410	Business Law I	3
CIS	103	Introduction to Microcomputers	3
MA	125*	Introduction to Statistics	3
TRT	102	Introduction to Travel and Tourism	3

TRT	300	The Travel Consumer	3
TRT	312	International Tourism	3
TRT	320	North American Destinations and Attractions	3
TRT	321	World-Wide Destinations and Attractions	3
TRT	322	Travel-Tourism Site Development	3
TRT	410	Topical Seminar in Travel-Tourism	3
TRT	430	Tourism Wholesalers and Suppliers	3
TRT	460	Passenger Transport	3
TRT	480	Contemporary Issues in Travel and Tourism	3
Fifth Semester Level Foreign Language Course			3
		Total semester hours	63

Economics (B.A.) 128 s.h.

ECO	101	Principles of Macroeconomics	3
ECO	102	Principles of Microeconomics	3
ECO	301	Intermediate Macroeconomic Theory	3
ECO	302	Intermediate Microeconomic Theory	3
PSC	320	Topics in Public Policy	3
PSC	328	Political Economy	3
Major / Related Electives			18
		Total semester hours	36

Economics (B.S.) 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
BUS	230	Management Principles	3
BUS	301	Introduction to Finance	3
BUS	330	Marketing	3
BUS	402	Corporate Finance	3
Business Electives			6
ECO	101	Principles of Macroeconomics	3
ECO	102	Principles of Microeconomics	3
ECO	301	Intermediate Macroeconomic Theory	3
ECO	302	Intermediate Microeconomic Theory	3
ECO	305	Econometrics	3
		Economics Electives	12
MA	125*	Introduction to Statistics	3
MA	129*	Finite Mathematics	3
PSC	320*	Topics in Public Policy	3
PSC	328*	Political Economy	3
		Total semester hours	63

Social Studies Comprehensive, Economics Concentration (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ANH	xxx*	Choice	3
ECO	101	Principles of Macroeconomics	3
ECO	102	Principles of Microeconomics	3

ECO	301	Intermediate Macroeconomic Theory	3
ECO	302	Intermediate Microeconomic Theory	3
ECO	xxx	Choice	3
ECO	xxx*	Choice	3
ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Technique	2
ED	302	Instructional Technology	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3
ED	315	Teaching of Social Studies in Secondary Schools	3
ED	400	Student Teaching	12
ED	410	Historical and Current Issues in Education	3
GEG	xxx*	Choice	3
HST	101	Western Civilization I	3
HST	102	Western Civilization II	3
HST	201	American History through the Civil War	3
HST	202	American History- Reconstruction to the Present	3
HST	xxx	20th Century U.S.	
	or		3
SOC	101	Introduction to Sociology	
HST	xxx	Third World Area Studies	6
PSC	xxx*	Choice	3
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
		Total semester hours	88

PROGRAM REQUIREMENTS: MINORS

Business Administration Minor: 18 s.h.
ACC 110, BUS 120, 230, 301, 330 and 3 credit hours by advisement

Accounting Minor: 18 s.h.
ACC 110, 111, 310, 315 or 350 and 6 credit hours from the following: ACC 311, 314, 320, 351, 400, 475; BUS 410 or ECO 101 or 102

Economics Minor: 18 s.h.
ECO 101, 102, 301 or 302, 9 s.h. in ECO electives

Marketing Minor: 18 s.h.
BUS 330, 415, ECO 101 or 102 and 9 credit hours of electives from the following: COM 210; BUS 332, 334, 370, 420, 421, 422, 423, 424 and 425.

Travel and Tourism Minor: 18 s.h.
TRT 102, 300, 320, 430, three credit hours TRT elective and three credit hours by advisement

PROGRAM REQUIREMENTS: ASSOCIATE DEGREE PROGRAMS

Accounting (A.S.):60 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Introduction to Accounting I	3
ACC	111	Introduction to Accounting II	3
ACC	310	Intermediate Accounting I	3
ACC	311	Intermediate Accounting II	3
ACC	xxx	Electives	6
Major Related Electives			6
BUS	410	Business Law I	3
CIS	203	Software for Business Application	3
ECO	101*	Principles of Macroeconomics	
	or		3
ECO	102*	Principles of Microeconomics	
ENG	230*	Writing for Business	
	or		3
ENG	330*	Technical Writing	
MA	125*	Introduction to Statistics	3
MA	129*	Finite Mathematics	3
PHL	202*	Contemporary Moral Problems	3
		Total semester hours	45

Business Administration (A.S.): 60 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Introduction to Accounting I	3
ACC	111	Introduction to Accounting II	3
BUS	130	Introduction to Business and Management	3
BUS	230	Management Principles	3
BUS	301	Introduction to Finance	3
BUS	330	Marketing	3
BUS	410	Business Law I	3
CIS	203	Software for Business Applications	3
Major Related Electives			6
ECO	101*	Principles of Macroeconomics	
	or		3
ECO	102*	Principles of Microeconomics	
ENG	230*	Writing for Business	
	or		3
ENG	330*	Technical Writing	
MA	125*	Introduction to Statistics	3
MA	129*	Finite Mathematics	3
SOC	101*	Introduction to Sociology	3
		Total semester hours	45

Business Administration, Travel and Tourism (A.S.): 60 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
BUS	160	Small Business Management	3
BUS	330	Marketing	3
BUS	410	Business Law I	3
CIS	103	Introduction to Microcomputers	
	or		3
CIS	203	Software for Business Applications	
ENG	230*	Writing for Business	
	or		3
ENG	330*	Technical Writing	
MA	125*	Introduction to Statistics	3
TRT	102	Introduction to Travel and Tourism	3
TRT	201	Computerized Reservations, Ticketing, Travel Agency Operations	3
TRT	320	North American Destinations and Attractions	3
TRT	430	Tourism Suppliers and Wholesalers	3
TRT	xxx	Elective	3
Major Related Electives			6
		Total semester hours	42

CHEMISTRY AND PHYSICS

Professors George (chairperson), Ramasamy, Sidler
Associate Professors Ambrosio, Davis, Ganong, Vayansky
Assistant Professors Chester
Instructor Kozacko

The Department of Chemistry and Physics offers three programs which lead to the baccalaureate degree with a major in chemistry and three programs which lead to the baccalaureate degree with a major in physics. A Chemistry Minor and a Physics Minor are two additional options which are available.

The Bachelor of Science degree in chemistry is structured after the standards of the American Chemical Society and provides excellent preparation for advanced studies in medicine, dentistry, optometry, patent law, and related professions. Emphasis is placed on organic and inorganic chemistry, mathematics, and general education. Students who elect this degree are prepared to assume careers with food, pharmaceutical, oil, and chemical industries. Chemists are often involved in quality control, research, sales, monitoring employee environments, and agencies requiring analytical skills. Chemistry graduates are very competitive in the retail and wholesale professions. Over half of the chemistry graduates continue on to graduate school.

The Bachelor of Science degree in chemistry also offers a Biochemistry concentration which recognizes the recent growth of the biotechnology industry and attention in all industrial sectors to biological problems. Students receive broad training in traditional areas of chemistry with additional emphasis in the area of cellular and molecular biology. Graduates are well-prepared for a changing job market or for further study in chemistry, biology, or professional disciplines such as medicine, dentistry, or pharmacy. Career

opportunities are available in medicine, dentistry, pharmacy, pharmaceutical, biotechnology, food, and cosmetics industries.

The Bachelor of Science in Education degree leads to certification as a qualified chemistry teacher in secondary schools. In addition, the student receives a sufficiently extensive background to continue on to graduate school for further studies in chemistry. A student who completes the program will graduate with a provisional certificate to teach in the Commonwealth of Pennsylvania. The current demand for high school chemistry teachers, both nationwide and in Pennsylvania, is high and the future looks bright for qualified people. In addition, the B.S.E. is the traditional entry-level degree for school administrative positions such as school counselors, principals, superintendents, and other educational specialists. Education and chemistry faculties are involved in advising students in this program.

Cooperative Education is an opportunity available to junior and senior chemistry majors who are enrolled in any of the B.S. or B.S.E. programs. Cooperative education provides those students who are accepted into the program valuable career experience, a salary, and up to a maximum of 9 credits toward graduation. To fulfill the requirements of this program, the student usually spends one semester plus one summer on location with a participating industry.

The Bachelor of Science degree in physics offers intensive training in classical and modern physics both in the classroom and in the laboratory. Students are taught the fundamental laws of nature and how to apply these principles to practical problems and situations. Some career opportunities for students who complete the B.S. degree program in Physics include: research assistants in government and industrial laboratories; technicians in the communication, electronics, and energy industries; and editors/writers of technical manuscripts. This program is excellent preparation for graduate study in physics, engineering, law, and economics.

The Bachelor of Science degree in physics with Pre-engineering concentration is designed for students who want a broadly based physics and engineering education. This program is a cooperative endeavor between Mansfield University and other institutions. Check with your advisor to see the list of other institutions. Students spend three years at Mansfield completing the bulk of their required course work for the physics degree and then two years at an engineering school completing their course work for the engineering degree. At the culmination of the experience, the student will have earned a B.S. in physics from Mansfield and an engineering degree from the affiliated school. Some career opportunities for students who choose to participate in this program include mechanical, electrical, civil, and chemical engineers; consultants to engineering firms; and research assistants in government and industrial laboratories.

The Bachelor of Science in Education degree in physics is designed for those students who want to teach physics in secondary schools. This program provides the necessary course work for certification as a physics teacher. Advising is handled by both education and physics faculty. Many students enrolled in this program also choose to seek certification in mathematics.

The department offers a minor in chemistry or physics to all interested persons who fulfill the basic requirements of either program. The minor, while not a degree program, is intended to permit students to develop their interest in chemistry or physics and thereby broaden their background as they acquire marketable skills.

PROGRAM REQUIREMENTS:BACCALAUREATE DEGREE PROGRAMS

Chemistry (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CHM	111*	General Chemistry I	4
CHM	112	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
CHM	311	Quantitative Analysis	4
CHM	321	Physical Chemistry I	4
CHM	322	Physical Chemistry II	4
CHM	332	Instrumental Analysis	4
CHM	410	Seminar	1
CHM	410	Seminar	1
CHM	420	Qualitative Organic Chemistry	3
CHM	431	Advanced Inorganic Chemistry	4
CHM	xxx	Chemistry Electives	6
MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233	Calculus III	4
MA	xxx*	Choice	3
PHY	210*	General Physics I	4
PHY	211*	General Physics II	4
		Total semester hours	70

Chemistry, Biochemical Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	310	Physiology	4
BI	370	Introduction to Cell Biology	4
BI	371	Microbiology	4
BI	372	Genetics	3
BI	374	Immunology	3
BI	xxx	Electives	6
CHM	111*	General Chemistry I	4
CHM	112	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
CHM	311	Quantitative Analysis	4
CHM	321	Physical Chemistry I	4
CHM	322	Physical Chemistry II	
	or		4
CHM	431	Advanced Inorganic Chemistry	
CHM	332	Instrumental Analysis	4
CHM	341	Biochemistry	4
CHM	410	Seminar	1
CHM	410	Seminar	1
CHM	420	Qualitative Organic Chemistry	
	or		3
CHM	421	Advanced Organic Chemistry	
MA	231*	Calculus I	4
MA	232*	Calculus II	4

MA	xxx	Math Elective (MA 125 or any 200-400 level course)	3
PHY	191*	Physics I	
	or		4
PHY	210*	General Physics I	
PHY	192*	Physics II	
	or		4
PHY	211*	General Physics II	
		Total semester hours	84

Chemistry Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	370	Cell Biology	4
CHM	111*	General Chemistry I	4
CHM	112	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
CHM	311	Quantitative Analysis	4
CHM	321	Physical Chemistry I	4
CHM	332	Instrumental Analysis	4
CHM	410	Seminar	1
CHM	410	Seminar	1
CHM	xxx	Chemistry Electives (CHM 322, 341, 352, 420, 421, 431, 432)	6
ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Techniques	2
ED	302	Instructional Technologies	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3
ED	313	Teaching of Science in Secondary Schools	3
ED	400	Student Teaching	12
ED	410	Historical and Current Issues in Education	3
HST	201	American History Through the Civil War	
	or		3
HST	202	American History - Reconstruction to Present	
MA	231*	Calculus I	4
MA	125*	Introductory Statistics	
	or		3-4
MA	232*	Calculus II	
PHY	191*	Physics I	
	or		4
PHY	210*	General Physics I	
PHY	192*	Physics II	
	or		4
PHY	211*	General Physics II	
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
		Total semester hours	98-9

Physics (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233	Calculus III	4
MA	311	Differential Equations I	3
PHY	180	Quantitative Methods of the Physical Sciences	3
PHY	210*	General Physics	4
PHY	211	General Physics II	4
PHY	311	Modern Physics I	3
PHY	312	Modern Physics II	3
PHY	313	Physical Mechanics I	3
PHY	315	Analog Electronics	4
PHY	316	Digital Electronics	4
PHY	xxx	Physics Electives (300/400 level)	15-20
		Total semester hours	58-63

Physics, Pre-Engineering Concentration (B.S.): 104 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233	Calculus III	4
MA	280	Linear Algebra and Matrix Theory	3
MA	311	Differential Equations I	3
MA	312	Differential Equations II	3
PHY	180	Quantitative Methods of the Physical Sciences	3
PHY	210*	General Physics I	4
PHY	211	General Physics II	4
PHY	311	Modern Physics I	3
PHY	312	Modern Physics II	3
PHY	313	Physical Mechanics I	3
PHY	315	Analog Electronics	4
PHY	316	Digital Electronics	4
	xxx	Science Electives (by advisement)	6-12
		Total semester hours	63-9

Physics Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Techniques	2
ED	302	Instructional Technologies	2
ED/PSY	305	Educational Psychology	3
ED	310	Reading Practices for Content Area and Special Teachers	3
ED	313	Teaching Science in Secondary Schools	3
ED	400	Student Teaching	12
ED	410	History and Current Issues in Education	3

HST	201*	American History Through the Civil War	
	or		3
HST	202*	American History - Reconstruction to the Present	
MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233	Calculus III	4
PHY	180	Quantitative Methods of the Physical Sciences	3
PHY	210*	General Physics I	4
PHY	211	General Physics II	4
PHY	311	Modern Physics I	3
PHY	312	Modern Physics II	3
PHY	315	Analog Electronics	4
PHY	xxx	Choice	3-4
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
		Total semester hours	79-80

PROGRAM REQUIREMENTS: MINORS

Chemistry Minor: 22-24 s.h.
22-24 s.h. in chemistry: CHM 111, 112, 301, 302, plus 6-8 s.h. from any 300 or 400 level CHM course except CHM 410, 490, or 497.

Physics Minor: 21 s.h.
21 s.h. in physics: PHY 210, 211, 311, 312, 315 and one additional 300/400 level physics elective.

COMMUNICATION & THEATRE

Professors Lapps, Travis, H., Travis, P.
Associate Professor Wright
Assistant Professors Carrish, Crum, Leiboff (chairperson), Longoria, Nolan, Williams

Mass Communication/Public Relations: The Public Relations concentration is excellent preparation for positions in many different public relations areas: an account executive at an advertising agency, a brand manager for a consumer product, a public relations director for a hospital, an information specialist for a non-profit organization, a sports information director, an owner of an advertising and public relations firm - with over 300 different career choices. Qualified students are encouraged to participate in the Department's successful internship program.

Mass Communication/Broadcasting: The Broadcasting emphasis prepares students for careers in electronic media writing, production and management, sales, on-air talent, music recording, cable outlets, law, and advertising. Our program offers a vigorous major elective and free elective curriculum which is adapted to the student's career interest. Students gain experience working in the University's television and audio studios. Qualified students are encouraged to participate in the Department's successful internship program.

Mass Communication/Journalism: The global information age has accelerated demand for persons equipped with journalism skills. Our program enhances students' abilities to

gather, write and manage news and information. The program mixes professional training and surveys the role of the media in society. Related electives allow students to combine journalism skills with career interests such as technical writing, environmental journalism, graphics, sports writing and more. Some potential careers are print journalists, electronic journalists, news editors, information specialists, copywriters, and creative writers. Qualified students are encouraged to participate in the Department's successful internship program.

Speech (B.A.): This program provides students with an extensive background in human communication study. Graduates often seek employment in management or continue to graduate school with the objective of seeking education based careers. Qualified students are encouraged to participate in the Department's successful internship program.

Theatre (B.S.): Students with a degree in theatre can pursue careers in regional and even national theatre productions. A theatre degree is also an excellent liberal arts degree that can prepare students for careers in sales, law, graduate school, management, and more. Theatre students at Mansfield have the opportunity to become involved in leadership opportunities on stage and behind the scenes.

Media Specialist (A.S.): The worlds of telecommunications, publishing, and public relations are exploding. The Media Specialist associate degree provides a great way to find entry level positions in a variety of communication fields: retail sales, freelance writing, as a videographer, or even work as a technician for a radio or television station. Our two-year associate degree program fits perfectly with all of our regular four year programs.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Mass Communication, Broadcasting Concentration (B.S.): 120 s.h.

COM	201	Intro to mass Media	3
COM	203	Voice and Articulation	3
COM	215	Audio Production	
	or		3
COM	310	Electronic Media Management	
COM	220	American Broadcasting History	3
COM	301	Television Program Design I	3
COM	304	Television Program Design II	3
COM	340	Professional Issues in Communication	3
COM	400	Communication Theory	3
COM	440	Communication Law	3
JN	100	Journalism	3
Related Choices			24
		Total semester hours	54

Mass Communication, Journalism Concentration (B.S.): 120 s.h.

COM	201	Introduction to Mass Media	3
COM	340	Professional Issues	3
COM	400	Communication Theory	3
COM	440	Communication Law	3
JN	100	Journalism	3
JN	200	Crisis Reporting	3
JN	210	Media Design	3

JN	310	Interpretative Journalism	3
JN	320	Creative Journalism	3
JN	330	Press Performance	3
Related Electives			24
		Total semester hours	54

Mass Communication, Public Relations Concentration (B.S.): 120 s.h.

COM	201	Introduction to Mass Media	3
COM	203	Voice and Articulation	3
COM	204	Public Speaking	3
COM	210	Introduction to Public Relations	3
COM	320	Advanced Public Relations	3
COM	340	Professional Issues	3
COM	400	Communication Theory	3
COM	401	Persuasion	3
COM	420	Public Relations Workshop	3
COM	440	Communication Law	3
JN	100	Journalism	3
Related Electives			24
		Total semester hours	57

Mass Communication, Theatre Arts Management Concentration (B.S.): 128 s.h.

ACC	110	Principles of Accounting I	3
BUS	130	Introduction to Business and Management	3
COM	201	Introduction to Mass Media	3
COM	210	Introduction to Public Relations	3
COM	340	Professionalism Issues	3
COM	400	Communication Theory	3
COM	440	Communication Law	3
JN	100	Journalism	3
THT	110	Introduction to Theatre	3
THT	210	Stagecraft	3
THT	212	Fundamentals of Acting I	3
THT	314	Play Production	3
THT	316	Theatre and Stage Management	3
Related Electives			18
		Total semester hours	57

Mass Communication, Performance Arts Concentration (B.S.): 128 s.h.

COM	200	Oral Interpretation	3
COM	201	Introduction to Mass Media	3
COM	203	Voice and Articulation	3
COM	204	Public Speaking	3
COM	303	Television and Radio Announcing	3
COM	340	Professional Issues	3
COM	400	Communication Theory	3
COM	440	Communication Law	3
JN	100	Journalism	3

THT	212	Fundamentals of Acting I	3
THT	213	Fundamentals of Acting II	3
THT	314	Play Production	3
Related Electives			18
		Total semester hours	54

Speech Communication (B.A.): 120 s.h.

COM	200	Oral Interpretation	3
COM	203	Voice and Articulation	3
COM	204	Public Speaking	3
COM	325	Interpersonal Communication	3
COM	360	Organizational Communication	3
COM	400	Communication Theory	3
COM	401	Persuasion	3
COM	440	Communication Law	3
COM	xxx	Communication Electives	9
		Total semester hours	33

Theatre (B.S.): 128 s.h.

COM	400	Communication Theory	3
THT	210	Stagecraft	3
THT	212	Fundamentals of Acting I	3
THT	213	Fundamentals of Acting II	3
THT	305	Theatre History I	
	or		3
THT	306	Theatre History II	
THT	310	Fundamentals of Directing	3
THT	316	Theatre and Stage Management	3
THT	410	Internship	
	or		6
THT	450	Special Projects	
THT	300/400	Technical Elective	3
Related Electives			18
		Total semester hours	48

PROGRAM REQUIREMENTS: MINORS

General Theatre Minor: 21 s.h.
THT 110, 210, 212, 214, 310, 312 or 313, 314

PROGRAM REQUIREMENTS: ASSOCIATE DEGREE PROGRAM

Media Specialist (A.S.): 61 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ART	342	Advertising, Design and Lettering	3
ART	365	Computer Art	3
BUS	130*	Introduction to Business and Management	3
BUS	330	Marketing	3
CIS	103	Introduction to Microcomputers	
	or		3
CIS	303	Computer Networks	
COM	201	Introduction to Mass Media	3
COM	210	Introduction to Public Relations	3
COM	215	Audio Production	3
COM	301	TV Design I	3
Communication electives			6
ED	420	Basic Photography	3
ENG	230*	Writing for Business	3
JN	100	Journalism	3
JN	210	Media Design	3
		Total semester hours	45

COMPUTER AND INFORMATION SCIENCE

See Mathematics and Computer Information Science

CRIMINAL JUSTICE ADMINISTRATION

Professor Ryan
Associate Professor Robarge (chairperson)
Assistant Professor Schreiner

The Department of Criminal Justice Administration offers programs of study leading to the following degrees: Bachelor of Science in Criminal Justice Administration, Associate of Science in Criminal Justice Administration, and a minor. CJA provides a systems-based background with a core curriculum covering the criminal justice areas of law enforcement, courts, corrections and juvenile delinquency.

Depending on a particular career interest, courses may also be selected from the following areas: police administration, investigation and interrogation, criminalistics, probation and parole, private security, organized crime, criminology, criminal law, and juvenile justice administration.

Most students complete a three month summer practicum within a criminal justice agency. Internships are available at over 100 selected sites in the northeastern United States.

Career Areas: Our CJA graduates are federally employed by U.S. Immigration, DEA, FBI, Secret Service and serve as U.S. marshals. Numerous graduates work in state and municipal law enforcement agencies as well as correctional, juvenile justice, and private security settings. Top graduates often go on to graduate school and law studies.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAM

Criminal Justice Administration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CJA	100	Introduction to the Administration of Criminal Justice	3
CJA	201	Introduction to Corrections Administration	3
CJA	202	Introduction to Law Enforcement	3
CJA	324	Administration of Justice	3
CJA	326	Court Management	
	or		
CJA	340	Management of Volunteers in CJA	
	or		3
CJA	359	Juvenile Justice	
	or		
CJA	453	Police Organization and Administration	
CJA	395	Delinquency and the Criminal Justice System	3
CJA	xxx	Electives	21
PSC	xxx*	Choice	3
PSY	xxx*	Choice	3
SOC	xxx*	Choice	3
	xxx*	PSC or PSY or SOC Choices	9
		Total semester hours	57

PROGRAM REQUIREMENTS: MINORS

Criminal Justice Administration Minor: 18 s.h.

CJA 100, 201, 202 and 9 sh 300/400 level CJA electives.

PROGRAM REQUIREMENTS: ASSOCIATE DEGREE PROGRAM

Criminal Justice Administration (A.S.): 61 s.h.

CJA	100	Introduction to Administration of Criminal Justice Administration	3
CJA	201	Introduction to Corrections Administration	3
CJA	202	Introduction to Law Enforcement	3
Major Related Electives			12
PSC	xxx	Choice	3
PSY	xxx	Choice	3
SOC	xxx	Choice	3
		Total semester hours	30

ECONOMICS

See Business Administration and Economics

EDUCATION

Professors Cleland, Heck, Plowcha, Putt (chairperson), Wydra
Associate Professors Brucklacher, Fuller, Kyofski, Woolley
Assistant Professors Fernsler, Musselman, Rudy

Elementary Education

Elementary Education at Mansfield University is a 4-year program leading to the degree of Bachelor of Science in Education (B.S.E.). An important element of the program is the sequence of public school field experiences in the freshman, sophomore, junior and senior years. The Education Department recommends strongly that students planning to major in elementary education build a background of experiences with young children. The program focuses on the elementary teacher as a reflective decision maker and provides the student with depth in subject matter, training in methodology, and an extensive variety of field experiences. As a part of the program, the student completes a semester-long student teaching assignment in two different elementary school classrooms. The program also enables the student to include a 15-17 credit hour area of concentration in one of the following: Early Childhood, Exceptional Children, Foreign Languages, Humanities, Instructional Technologies, Natural Sciences, Mathematics, or Social Sciences. Students interested in a program leading to dual certification in elementary education and special education should contact the Department Chairperson.

Secondary Education

The Secondary Education curriculum is a 4-year program leading to the Bachelor of Science in Education degree. The curriculum is the combined responsibility of the Education Department and the appropriate academic departments. A secondary education major is advised by a faculty member of the Education department who advises the student in completing certification requirements and by a faculty member of the content area department of the student's major. The program focuses on the secondary teacher as reflective decision maker and provides students with depth in subject matter, training in methodology, and a variety of public school field experiences that includes a semester-long student teaching experience in two different classrooms.

Students who complete the secondary education program and obtain appropriate scores on required tests may apply for a provisional certification to teach in the secondary schools of Pennsylvania. Certification programs include English, foreign languages (French, German, Spanish), mathematics, science (biology, chemistry, earth and space science, general sciences, physics), and comprehensive social studies (with a concentration of course-work in one of the following areas: geography, history, political science, psychology, sociology/anthropology, economics). See the appropriate academic departments for detailed information about the B.S.E. program.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Elementary Education (B.S.E.): 128

(*courses with asterisk may also satisfy General Education requirements)

ED	101	Introduction to Education	1
ED	301	Evaluative Technique	2
ED	302	Instructional Technology	2
ED/PSY	305	Educational Psychology	3

ED	401	History and Philosophy of Education	3
ED	402	Contemporary Issues in Education	2
ELE	202	Pre-Professional Experience	2
ELE	301	Observation and Participation in Elementary Education	3
ELE	350	Child Development	3
ELE	383	Teaching Reading in the Elementary School	3
ELE	384	Teaching Mathematics in the Elementary School	3
ELE	386	Teaching of Social Studies	3
ELE	387	Teaching of Science	3
ELE	400	Student Teaching	12
ELE	403	Communication Skills Workshop for Elementary School Teachers	3
ELE	425	Diagnostic and Remedial Reading	3
GEG	xxx*	Choice	3
HST	201*	American History Through the Civil War	
	or		3
HST	202*	American History - Reconstruction to the Present	
MU	101*	Introduction to Music	3
PSY	101*	Introduction to General Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
	xxx	Computer and Technology, Early Childhood Education, Exceptional Children, Foreign Language, Humanities, Math, Natural Science, Social Science	15-17
		Total semester hours	81-3

ENGLISH

Professors Biddison, Blais, Gertzman, Glimm, Hindman, Koloski, Sanders (chairperson), Uffelman
Associate Professors Barton, Pifer, Sornberger, Sullivan-Blum, Ulrich
Assistant Professors Harris, Murphy, Washington

Students majoring in English have the opportunity to study literature and practice various modes of writing in order to help them discover and articulate their ideas as completely and cogently as possible. Courses offered for the major stress critical thinking and problem solving as essential parts of the composing and interpreting process. Students pursuing the English curriculum receive training in the technique of literary analysis and are offered a broad background in the major and formal developments of English and American literature and language. In addition, students are provided with an intensive study of selected authors of diverse ethnic and cultural backgrounds and are introduced to major historical periods.

Students may pursue either a B.A. (Liberal Arts) or B.S.E. (Secondary English Education) program. The English B.A. and B.S.E. programs are designed to afford students an extensive exposure to the ideas, experiences, and forms of literary expression. Such a background in the analysis and interpretation of literature provides the B.A. major with a strong basis for further graduate study in literature, as well as for careers in law, public relations, editing, communications, civil service, industry, and library science. The background in literature and analysis and work in the theory of writing coupled with professional studies provides the English B.S.E. major with a strong basis for a career in teaching English in a secondary school.

In addition to the four-year B.A. and B.S.E. programs, the English department offers a two-year degree (A.S.) in Professional Writing and four minors: a Minor in Creative Writing; a Minor in Literature; a Minor in Professional Writing; and a Minor in Women's Studies. Students in the English B.A. and B.S.E. programs must complete study of a foreign language through the 202 level. In addition, they may wish to complete a minor in Creative Writing, Professional Writing or Women's Studies as a way of adding a content emphasis to their undergraduate course of study.

In planning a course of study, English majors must consult with their departmental academic advisor on a regular basis, since revisions in programs of study offered in whole or in part by the English department occur to both modify and expand existing requirements. English B.S.E. majors have an advisor in both the English department and the Education department and must consult regularly with both advisors. For both majors, ENG 115 Introduction to Literature should be completed during the freshman year.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

English Major, (B.A.): 128 s.h.

ENG	333	Advanced Composition	3
ENG	352	Shakespeare	3
ENG	401	Seminar in English Studies	3
ENG	xxx	Electives	12
ENG	xxx	American Survey	6
ENG	xxx	British Survey	9
		Total Semester Hours	36

English Education Major, (B.S.E.):128 s.h.

(*courses with asterick may also satisfy General Education requirements)

COM	200*	Oral Interpretation	3
COM	400*	Communication Theory	3
ENG	225	English Grammar	3
ENG	226	History of the English Language	3
ENG	324	Composition Theory and Practice	3
ENG	333	Advanced Composition	3
ENG	352	Shakespeare	3
ENG	401	Seminar in English Studies	3
ENG	xxx	Electives	3
ENG	xxx	American Survey	6
ENG	xxx	British Survey	9
ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Technique	2
ED	302	Instructional Technology	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3
ED	312	Teaching Secondary English Language Arts	3
ED	400	Student Teaching	12

ED	410	History and Current Issues in Education	3
HST	201 *	American History Through the Civil War	
	Or		3
HST	202*	American History - Reconstruction to the Present	
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
		Total Semester hours	85

PROGRAM REQUIREMENTS: MINORS

Creative Writing Minor
15 credits minimum (beyond the required composition courses) to include ENG 202, ENG 312 or 314, ENG 411 or 412 and 6 s.h. of creative writing electives

English Literature Minor
18 credits minimum (beyond the required composition courses) to include ENG 115, ENG 203 or 204 or 220, ENG 308 or 309, ENG 310 or 311 and 6 s.h. of English Electives selected from ENG 350 through 401.

Professional Writing Minor
18 credits minimum (beyond the required composition courses) to include ENG 230, ENG 330, ENG 401 (when offered as Professional Writing Seminar) and 9 s.h. selected from COM 230, ENG 202, ENG 414, ENG 497, JN 100, JN 210, JN 310, JN 320.

Women's Studies Minor
18 credits minimum to include ENG 100, ANH 250 or PSY 422, ENG 220 or 401 (when offered with Women's Studies content) or HST 210, WS 410, and 6 s.h. of women's studies electives selected through consultation with the Women's Studies advisor.

PROGRAM REQUIREMENTS: ASSOCIATE DEGREE PROGRAM

Professional Writing (A.S.): 61 s.h.

COM	230	Writing for Broadcasting Media	3
ENG	202	Creative Writing	3
ENG	230	Writing for Business	3
ENG	330	Technical Writing	3
ENG	401	Seminar in English Studies	3
ENG	414	Creative Non-Fiction Prose	3
ENG	497	Independent Study	3
JN	100	Journalism	3
JN	210	Media Design	3
JN	310	Interpretative Journalism	3
JN	320	Creative Journalism	3
		Total semester hours	33

FOREIGN LANGUAGE

Professor Garay
Associate Professors Blanco, Clark (chairperson)
Assistant Professors Holtman, Iovino

The Foreign Language Department offers B.A. and B.S.E. degrees in French, German, and Spanish. The opportunity to complete basic through intermediate Russian is also available. By graduation students will have taken at least 34 semester hours in their foreign language major. These include courses in structure, phonetics and pronunciation, culture and civilization, and literature. Some students complete dual majors and many opt for minors; the latter are available in French, German, Spanish, and Latin American Studies, all of which can prove to be an employment advantage. This is only natural in an ever more interdependent world where the ability to function in international communications is at a premium. The influence of Hispanic culture is growing in the U.S. while French is still spoken in many countries and German has wide application, especially in Europe.

We strongly encourage students to participate in Study Abroad programs and believe that such participation should be part of the preparation of all aspiring foreign language teachers. But the benefits accrue as well to others who avail themselves of such an opportunity: they not only have a better understanding of other cultures but are in a stronger position to use the knowledge they have acquired in the pursuit of their careers. To date students have taken part in programs in Ecuador, France, Germany, Mexico, Spain and Russia. Mansfield University has an exchange program with Volgograd State University in Russia and has initiated a study abroad program with the Universidad Nacional in Costa Rica.

The foreign language laboratory has booths where students practice listening, comprehension and speaking skills from cassettes which they control individually. This facility is also equipped with several computer stations and has satellite receiver capability. In classrooms too, videos, slides, and maps are presented in various courses to enhance the learning/cultural environment and help provide a background for the appropriate language.

Foreign Language study is useful or necessary in various careers in government agencies, and provides an expertise often called upon in many areas of business, travel and tourism, journalism, criminal justice administration, geography, history, communications, political science, social work, and education.

The Foreign Language Department also offers minors in French, German, Spanish and Latin American Studies.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

French (B.A.): 128 s.h.

FR	201	Intermediate French I	3
FR	202	Intermediate French II	3
FR	205	Phonetics and Pronunciation	1
FR	300	Conversational French and Civilization	3
FR	320	Advanced French Structure	3
FR	330	Survey of French Literature I	3

FR	331	Survey of French Literature II	3
French Electives			15
		Total semester hours	34

French Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Techniques	2
ED	302	Instructional Technology	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3
ED	317	Methods of Teaching Foreign Languages	3
ED	400	Student Teaching	12
ED	410	Historical and Current Issues in Education	3
FR	201	Intermediate French I	3
FR	202	Intermediate French II	3
FR	205	Phonetics and Pronunciation	1
FR	300	Conversational French and Civilization	3
FR	320	Advanced French Structure	3
FR	330	Survey of French Literature I	3
FR	331	Survey of French Literature II	3
French Electives		15	
HST	201*	American History through the Civil War	
	or		3
HST	202*	American History- Reconstruction to the Present	
PSY	101	Introduction to General Psychology	3
PSY	321	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
		Total semester hours	77

German (B.A.): 128 s.h.

GER	201	Intermediate German I	3
GER	202	Intermediate German II	3
GER	205	Phonetics and Pronunciation	1
GER	300	Conversational German	3
GER	320	Advanced German Structure	3
GER	330	Survey of German Literature I	3
GER	331	Survey of German Literature II	3
GER	335	Proseminar: Deutschlandkunde	
	or		
GER	336	Proseminar: Laender und Staedte	
	or		3
GER	360	Proseminar: Twentieth Century German Literature	
German Electives			12
		Total semester hours	34

German Education (B.S.E.): 128 s.h.

(*courses in asterisk may also satisfy General Education requirements)

ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Technique	2
ED	302	Instructional Technology	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3
ED	317	Methods of Teaching Foreign Languages	3
ED	400	Student Teaching	12
ED	410	Historical and Current Issues in Education	3
GER	201	Intermediate German I	3
GER	202	Intermediate German II	3
GER	205	Phonetics and Pronunciation	1
GER	300	Conversational German	3
GER	320	Advanced German Structure	3
GER	330	Survey of German Literature I	3
GER	331	Survey of German Literature II	3
GER	335	Proseminar: Deutschlandkunde	
	or		
GER	336	Proseminar: Laender und Staedte	
	or		3
GER	360	Proseminar: Twentieth Century German Literature	
HST	201*	American History through the Civil War	
	or		3
HST	202*	American History- Reconstruction to the Present	
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
German Electives			12
		Total semester hours	74

Spanish (B.A.): 128 s.h.

SPA	201	Intermediate Spanish I	3
SPA	202	Intermediate Spanish II	3
SPA	205	Pronunciation and Phonetics	1
SPA	305	Spanish Conversation and Composition	3
SPA	306	Culture and Civilization of Spain	3
SPA	307	Culture and Civilization of Latin America	3
SPA	320	Advanced Spanish Structure	3
SPA	330	Survey of Spanish Literature I	
	or		3
SPA	331	Survey of Spanish Literature II	
SPA	340	Spanish-American Literature I	
	or		3
SPA	341	Spanish-American Literature II	
Spanish Electives			9
		Total semester hours	34

Spanish Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Technique	2
ED	302	Instructional Technology	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3
ED	317	Methods of Teaching Foreign Languages	3
ED	400	Student Teaching	12
ED	410	Historical and Current Issues in Education	3
HST	201*	American History through the Civil War	
	or		3
HST	202*	American History- Reconstruction to the Present	
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPA	201	Intermediate Spanish I	3
SPA	202	Intermediate Spanish II	3
SPA	205	Pronunciation and Phonetics	1
SPA	305	Spanish Conversation and Composition	3
SPA	306	Culture and Civilization of Spain	3
SPA	307	Culture and Civilization of Latin America	3
SPA	320	Advanced Spanish Structure	3
SPA	330	Survey of Spanish Literature I	
	or		3
SPA	331	Survey of Spanish Literature II	
SPA	340	Spanish-American Literature I	
	or		3
SPA	341	Spanish-American Literature II	
Spanish Electives			9
SPE	360	Exceptional Children in Regular Classes	3
		Total semester hours	77

PROGRAM REQUIREMENTS: MINORS

French Minor: 15 s.h.

FR 201, 202 and 9 s.h. French electives at the 300/400 level.

German Minor: 15 s.h.

GER 201, 202 and 9 s.h. German electives at the 300/400 level.

Spanish Minor: 15 s.h.

SPA 201, 202 and 9 s.h. Spanish electives at the 300/400 level.

Latin American Studies Minor: 18 s.h.

PSC 312, HST 376 or SPA 307 plus 12 s.h. electives from the following (choose four prefixes): ANH 101, 301*, or 350*; ARH 323 or 324; BUS 333*, 403*, 404*, or 422; ECO 205* or 333*; ENG 220*, 305*, or 401*; HST 232, 375, 415 or 470; MU 301*; PSC 212*, 412*, or 415*; SOC 200; SPA 340, 341, or 400*, SPE 330*, WS 355.

*25% Latin American content in course required in semester offered to apply to minor.

GEOGRAPHY and GEOLOGY

Professor Dodson (chairperson)
Associate Professor Darby
Assistant Professors King, Thorne

Geography is a modern academic field concerned with interpreting the physical and cultural patterns and processes that shape our world. Geographers study a broad range of topics such as the conservation and management of natural resources, the ecological relationships of people and their surroundings, environmental disruptions, regional-economic development, and geographic information systems (GIS). This program allows some freedom, with advisement, to tailor a program to individual needs and interests. With diligent study, students are prepared for graduate school or for entry-level positions in government and industry.

The following degrees and concentrations are available in the department: a B.A. and a B.S. in geography, as well as concentrations in environmental science and regional planning; minors in geography, geology, and regional planning; an associate degree program in geography/mapping technology; and, a certificate in cartography. The department also houses the content-area component of the B.S.E. (teacher preparation) programs in earth/space science and social studies (geography emphasis).

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Geography (B.A.): 128 s.h.

GEG	101	World Regional Geography	3
GEG	102	Human Geography	3
GEG	111	Physical Geography	3
GEG	222	Environmental Issues	3
GEG	300	Geographic Research	3
GEG	320	Cartography	4
GEG	360	Economic Geography	3
GEG	364	Techniques of Geographic Measurement	3
Geography Electives (300/400 level)			12
		Total semester hours	37

Geography (B.S.): 128 s.h.

GEG	101	World Regional Geography	3
GEG	102	Human Geography	3
GEG	111	Physical Geography	3
GEG	222	Environmental Issues	3
GEG	300	Geographic Research	3
GEG	320	Introductory Cartography	4
GEG	360	Economic Geography	3
GEG	364	Techniques of Geographic Measurement	3
GEG	xxx	Geography Electives (300/400 level)	15
		Total semester hours	40

Geography, Environmental Science Concentration (B.S.): 128 s.h.
(*courses with asterisk may also satisfy General Education requirements)

BI	331	Local Flora	
	or		
BI	351	Limnology	3
	or		
BSC	250	Field Methods in Environmental Biology	
BI	350	Ecology	4
BI	498	Seminar in Environmental Science	
	or		1
GEG/GEL	465	Seminar in Environmental Science	
CHM	101*	Introductory Chemistry	
	or		4
CHM	111*	General Chemistry I	
CHM	102*	Organic and Biochemistry	
	or		4
CHM	112*	General Chemistry II	
GEG	101	World Regional Geography	3
GEG	102	Human Geography	3
GEG	111	Physical Geography	3
GEG	222	Environmental Issues	3
GEG	300	Geographic Research	3
GEG	312	Weather and Climate	3
GEG/GEL	321	Geomorphology	
	or		
GEG	415	Special Topics	3
	or		
GEG/GEL	420	Remote Sensing	
GEG/GEL	340	Map and Air Photo Interpretation	4
GEG	364	Techniques of Geographic Measurement	3
GEG	xxx	Geography Electives	9
GEL	102	Environmental Geology	
	or		
GEL	121	Physical Geology	3
	or		
GEL	330	Hydrology	
RPL	342	Land-Use Policy	3
		Total semester hours	59

Geography, Regional Planning Concentration (B.S.): 128 s.h.

GEG	101	World Regional Geography	3
GEG	102	Human Geography	3
GEG	111	Physical Geography	3
GEG	222	Environmental Issues	3
GEG	300	Geographic Research	3
GEG	320	Introductory Cartography	4
GEG	350	Urban Geography	3
GEG	360	Economic Geography	3
GEG	364	Techniques of Geographical Measurement	3

GEG	375	Geographic Information Systems	3
GEG	430	Modern Cartographic Techniques	3
RPL	102	Introduction to Regional Planning	3
RPL	342	Land-Use Policy	3
RPL	494	Planning Seminar	3
RPL	496	Planning Internship	12
		Total semester hours	55

Social Studies Comprehensive, Geography Concentration (B.S.E.): 128 s.h.
(*courses with asterisk may also satisfy General Education requirements)

ANH	xxx*	Choice	3
ECO	xxx*	Choice	3
ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Techniques	2
ED	302	Instructional Technologies	2
ED/PSY	305	Educational Psychology	3
ED	310	Reading Practices for Content Area and Special Teachers	3
ED	315	Teaching Social Studies in Secondary Schools	3
ED	400	Student Teaching	12
ED	410	History and Current Issues in Education	3
GEG	101	World Regional Geography	
	or		3
GEG	102	Human Geography	
GEG	111	Physical Geography	3
GEG	222*	Environmental Issues	3
GEG	300/400	Geography Electives	
HST	101	Western Civilization I	3
HST	102	Western Civilization II	3
HST	201	American History Through the Civil War	3
HST	202	American History - Reconstruction to Present	3
HST	xxx	Twentieth Century United States	
	or		3
SOC	101	Introduction to Sociology	
	300/400	Third World Area Studies	6
PSC	xxx*	Choice	3
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
		Total semester hours	88

Earth and Space Science Education (B.S.E.): 128 s.h.
(*courses with asterisk may also satisfy General Education requirements)

AST	105	Exploration of the Solar System	
	or		3
AST	106	One Possible Universe	
BSC	101*	General Biology	4
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4

ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Techniques	2
ED	302	Instructional Technologies	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3
ED	313	Teaching Science in Secondary Schools	3
ED	400	Student Teaching	12
ED	410	History and Current Issues in Education	3
GEG	111	Physical Geography	3
GEG	222	Environmental Issues	3
Professional Sequence:			9
GEG	312	Weather and Climate (3)	
GEG/GEL	321	Geomorphology (3)	
GEL	332	Mineralogy (3)	
GEL	341	Paleontology (3)	
GEL	352	Stratigraphy (3)	
Techniques and Issues:			6
BSC	250	Field Methods in Environmental Biology (3)	
GEG/GEL	340	Map and Air Photo Interpretation (4)	
GEG	415	Special Problems (3)	
GEG/GEL	420	Remote Sensing (3)	
GEG/GEL	xxx	Field Camp (variable credit)	
GEL	102	Environmental Geology	3
GEL	121	Physical Geology	3
GEL	122	Historical Geology	3
GEL	330	Hydrology (3)	
GEL	401	Field Techniques in Geology (3)	
PHY	151*	Conceptual Physics I	4
PHY	152*	Conceptual Physics II	4
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Child in Regular Classes	3
		Total semester hours	96

PROGRAM REQUIREMENTS: MINORS

Geography Minor: 18 s.h.
9 s.h. from GEG 101, 102, 111, or 222. 9 s.h. of GEG electives (300 or 400 level).

Regional Planning Minor: 18 s.h.
RPL 102, 342, 494. 9 s.h. from GEG 320, 364, 375, 430.

Geology Minor: 18 s.h.
GEL 121, 122, and 12 s.h. of GEL electives (300 or 400 level).

PROGRAM REQUIREMENTS: ASSOCIATE DEGREE PROGRAM

Geography/Mapping Technology (A.S.): 60 s.h.

GEG	101	World Regional Geography	3
GEG	102	Human Geography	3
GEG	111	Physical Geography	3
GEG	320	Cartography	3
GEG	330	Advanced Cartography	3
GEG	340	Map and Air Photo Interpretation	4
GEG	364	Techniques of Geographic Measurement	3
GEG	375	Geographic Information Systems	3
GEG	420	Remote Sensing	3
GEG	430	Modern Cartography	3
GEG	431	Seminar in Cartographic Programming	1
		Total semester hours	32

HEALTH, PHYSICAL EDUCATION AND RECREATION

Associate Professors Evans, Maisner, Sabol (chairperson), Shaw, H.
Assistant Professors Irwin, Schintzius, Shaw, M.

Students are required to complete any three credits of health and physical education from the HPE 100-164 courses to satisfy the general education core requirements for graduation. These include a two-credit health course (HPE 101) and a broad range of one-credit courses that emphasize fundamental skills and fitness, from aerobics to volleyball.

HISTORY AND POLITICAL SCIENCE

Professor Dalmolen
Associate Professors Lukasz, McQuaid (chairperson), Paskvan

The Department of History and Political Science offers five degree programs as well as four minor programs. We offer two History degrees: a B.A. in History, and a B.S.E. in Social Studies/History; three Political Science degrees: a B.A. in Political Science, a B.A. in Political Science International Studies concentration, and a B.S.E. in Social Studies/Political Science. We offer minors in History, Political Science, International Studies, and Environmental Studies.

History

The past is a living, dynamic subject and very much a part of today. This program in the humanities provides a solid background in the methods and concepts of historical investigation and introduces students to the various schools of historical interpretation. It includes courses in American, European, and Third World history, as well as a wide variety of arts and sciences courses. The research and writing skills developed in this program open opportunities in many areas. History is excellent preparation for law school. Combined with the appropriate courses, it provides a good background for journalism. Producers of television shows, documentaries, and movies, with settings in the past, all

have research staffs to insure historically accurate productions. History graduates work in such diverse careers as editing publications, management, foreign service, and museums.

Political Science

The Political Science program provides a broad, balanced introduction to the substantive aspects of government and politics and to the ways these have been studied and explained by the discipline of Political Science. The program develops the knowledge and skills required for further study in graduate school or law school and for the pursuit of careers in fields such as business, law, public administration, politics, teaching, journalism, and research. The program nurtures attitudes and values conducive to life-long learning about government and politics and to active, effective citizenship.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREES PROGRAMS

History, (B.A.): 128 s.h.

HST	101	Western Civilization I	
	or		3
HST	102	Western Civilization II	
HST	201	American History Through the Civil War	
	or		3
HST	202	American History- Reconstruction to the Present	
HST	300	Historiography	3
HST	496	Seminar/Select Topics	3
	Third World History		3
	(ANH, GEG, HST, PSC)		3
HST	300/400	Electives	15
(No more than 12 s.h. in any one area)			
		Total semester hours	33

Social Studies Comprehensive/History Concentration (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ANH	xxx*	Choice	3
ECO	xxx*	Choice	3
ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Techniques	2
ED	302	Instructional Technology	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3
ED	315	Teaching of Social Studies in Secondary Schools	3
ED	400	Student Teaching	12
ED	410	Historical and Current Issues in Education	3
GEG	xxx*	Choice	3
HST	101	Western Civilization I	3
HST	102	Western Civilization II	3
HST	201	American History Through the Civil War	3
HST	202	American History - Reconstruction to the Present	3
HST	300	Historiography	3

HST	xxx	Twentieth Century U.S.	
	or		3
SOC	101	Introduction to Sociology	
HST	xxx	History Electives	12
Third World Area Studies			6
PSC	xxx*	Choice	3
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
		Total semester hours	88

Political Science (B.A.): 128 s.h.

PSC	100	Introduction to Politics	3
PSC	201	American Politics	3
PSC	210	World Politics	3
PSC	235	Research Methods	3
Political Science Electives (min. 18 at 300/400 level)			24
		Total semester hours	36

Political Science, Interdisciplinary/International Studies Concentration (B.A.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ANH	101	Cultural Anthropology	3
ECO	101*	Principles of Macroeconomics	3
ECO	333	International Economics	3
GEG	101	World Regional Geography	3
HST	101*	Western Civilization I	
	or		3
HST	102*	Western Civilization II	
PSC	201	American Politics	3
PSC	210	World Politics	3
PSC	212	Comparative Politics	3
Select TWO: 6			
HST	366	Twentieth Century Europe (3)	
HST	376	Modern Latin America (3)	
HST	385	History of the Middle East (3)	
HST	386	History of Southeast Asia (3)	
HST	387	History of East Asia (3)	
HST	388	History of Africa (3)	
Select ONE: 3			
ANH	301	World Cultures (3)	
ANH	308	Sub-Sahara Africa (3)	
Select TWO: 6			
PSC	312	Canada, Mexico, U.S. (3)	
PSC	412	Topics in Comparative Politics (3)	
PSC	415	U.S. Foreign Policy (3)	
Advanced Language (one language)			6
		Total semester hours	45

Social Studies Comprehensive, Political Science Concentration (B.S.E.): 128
(*courses with asterisk may also satisfy General Education requirements)

ANH	xxx*	Choice	3
ECO	xxx*	Choice	3
ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Techniques	2
ED	302	Instructional Technologies	2
ED/PSY	305	Educational Psychology	3
ED	310	Reading Practices for Content Areas and Special Teachers	3
ED	315	Teaching Social Studies in Secondary Schools	3
ED	400	Student Teaching	12
ED	410	History and Current Issues in Education	3
GEG	xxx*	Choice	3
HST	101	Western Civilization I	3
HST	102	Western Civilization II	3
HST	201	American History Through the Civil War	3
HST	202	American History - Reconstruction to Present	3
HST	xxx	Twentieth Century United States	
	or		3
SOC	101	Introduction to Sociology	
	xxx	Third World Area Studies	6
PSC	xxx	Political Science Electives	15
PSC	xxx*	Choice	3
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
		Total semester hours	88

PROGRAM REQUIREMENTS: MINORS

History Minor: 18 s.h.
HST 101 or 102; HST 201 or 202; and 12 s.h. of history electives (minimum 6 s.h. 300/400 level)

Minor in Political Science: 18 s.h.
9 s.h. from PSC 100 or PSC 235, PSC 201 or PSC 202, PSC 210 or PSC 212. 9 s.h. of Political Science electives at the 300 and/or 400 level.

Minor in International Studies: 21 s.h.
ANH 101; GEG 101; PSC 210; PSC 212. 3 s.h. from HST 366, 376, 385, 386, 387, or 388; 6 s.h. from ANH 301, 308, PSC 312, 415, or ECO 333.

Minor in Environmental Studies: 21 s.h.
The environmental studies minor allows students of all majors to engage in a fully interdisciplinary course of study focused on the relationship between people and the natural world. This enterprise is designed to deepen understanding of the humanities and the sciences and to suggest ways those disciplines can be integrated. This minor will also

help students to be more effective citizens in a world where the earth's population of 5.6 billion is projected to double during their lifetimes and the demand for resources will increase.

GEG 222; one of BSC 103, CHM 103, GEL 102; ES 300; 9 s.h. of electives distributed over three blocks (social, creative, and natural) at least 6 s.h. of which must be at the 300/400 level; and ES 497.

HONORS PROGRAM

The Mansfield University Honors Program is a 21-credit interdisciplinary academic program featuring innovative course work, challenging subjects, and unique opportunities for cultural enrichment. Designed for students with a strong record of academic achievement and a desire for new learning experiences, the Honors Program enables students to explore subjects that interest them more deeply, and encourages them to apply their knowledge across disciplines and in a global context. The Honors Program is a dynamic learning environment that includes small classes, unique courses, collaborative and individual research projects, as well as field-based educational experiences. The Program's goal is to provide students with the knowledge, skills and opportunities to achieve their full potential during their academic career at Mansfield University.

Honors students take six specially-designed courses during their academic career – three core courses and three electives – and each student finishes the Program by completing the "capstone" independent-study course, the Senior Honors Research Project. All Honors courses satisfy the University's General Education requirements.

Honors students enjoy a variety of opportunities for cultural enrichment and study. Each Fall, the Honors Program sponsors a weekend trip to the Toronto International Film Festival. The Festival features screenings of over 300 new films around the world, and the directors or actors themselves are often present to introduce the films and answer questions. Other Honors trips have included the Stratford (Ontario) Shakespeare Festival and the Springwater (NY) Center for Meditative Inquiry. In addition, each semester the Honors Program sponsors more socially-oriented day-trips to various locations in the region.

The Mansfield University Honors Program is also a member of the Northeast Regional National Collegiate Honors Council; as a result, Honors students have the opportunity each April to participate in the NE-NCHC's annual conference and meet other Honors students from colleges and universities in the Northeast U.S. and eastern Canada. In addition, each year two Mansfield Honors students are chosen to participate in the Pennsylvania State System of Higher Education Summer Honors Program. The Summer Honors Program combines two weeks of intensive course work at the host SSHE institution with off-site, field-based learning experiences. In recent years, the SSHE Summer Honors Program has featured international study in cities such as Oxford, Moscow, and Vienna.

In addition to completing the course work, Honors students must maintain a 3.0 (B) average in their Honors classes and overall. Each Honors student is assigned an Honors faculty adviser who helps schedule the student's classes and makes sure all Honors requirements are being fulfilled. There is no penalty or disadvantage if a student chooses to withdraw or must otherwise resign from the Honors Program.

There are several ways to enroll in the Honors Program. Incoming freshmen with sufficiently high class rank and college board scores (top 10% of their high school class and SAT score of 1100 or higher) are invited to accept early admission to the Honors

Program. During the first semester of the freshman year, students who are performing well in their classes are invited to join the Honors Program on the basis of faculty recommendation. At the end of the Fall semester, all first-year students who have demonstrated excellence in their academic course work receive invitations to enroll in the Honors Program for the following semester. First-year students are also invited to apply on their own, and must complete a letter of application and provide a letter of recommendation from an MU faculty member.

Course Requirements

HON 100W	Honors Humanities I	3 s.h.
HON 101W	Honors Humanities II	3 s.h.
HON 201W	Social Science Honors	3 s.h.
HON 255/455	Honors Electives	9 s.h.
HON 497	Senior Project	3 s.h.

For additional information about the Honors Program, or to apply, contact:
Dr. John M. Ulrich
Honors Program Director
101-A Belknap Hall

MATHEMATICS AND COMPUTER INFORMATION SCIENCES

Professors Lienhard (chairperson), Robinson-Slabey, Walker
Associate Professors Engel, Iseri, Krantz, Mumma, Savoye, Werner, J., Werner S
Assistant Professors D'Ortona, Schuerman

The Department of Mathematics and Computer Information Science offers six baccalaureate degree programs, one associate degree program, and five minors. The department has programs in two disciplines: Mathematics and Computer Science.

In Mathematics the department offers four baccalaureate degree programs: B.A. in Mathematics, B.S. in Mathematics, B.S. Mathematics - Actuarial Science concentration, and B.S.E. Mathematics (secondary education). The two minors are Mathematics and Statistics. The B.A. mathematics program is a flexible curriculum designed to accommodate the widest range of career objectives. The B.S. in mathematics is more applications-oriented and requires more specified courses. The B.S. in mathematics with the actuarial science concentration prepares students for careers in the actuarial sciences. The B.S.E. mathematics program prepares students to become certified teachers at the secondary school level.

In Computer Science the department offers two baccalaureate degree programs. One has a concentration in Computer Science and the other has a concentration in Information Systems. The Computer Science concentration focuses on the techniques and mathematical aspects of computing. The requirements are sufficient for majors to declare a mathematics minor without any additional coursework. The Information Systems concentration focuses on the system and business aspects of computing. Most students also declare a business-related minor or, with a modest number of additional courses, complete a dual major in Business Administration. An associate degree in Information Systems is also available. There are three minor areas of study in Computing: Computer Science, Information Systems, and General Computing. Students who major in one concentration can minor in the other with some additional course work. Also, students majoring in Computer Science may choose to do a dual major with Information Systems. Students majoring in Information Systems may choose to do a dual major with a program

in the Business and Economics Department. These dual majors and major/minor strategies can be valuable assets when entering the job market.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Mathematics (B.A.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233	Calculus III	4
MA	260	Discrete Structures	3
MA	280	Linear Algebra and Matrix Theory	3
MA	314	Applied Probability and Statistics	3
MA	345	Real Analysis I	3
MA	361	Modern Algebra I	3
MA	300/400	Electives	15
PHY	210*	General Physics I	4
PHY	211*	General Physics II	4
		Total semester hours	50

Mathematics Major (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233	Calculus III	4
MA	260	Discrete Structure	3
MA	280	Linear Algebra and Matrix Theory	3
MA	308	Operations Research	3
MA	311	Differential Equations I	3
MA	312	Differential Equations II	3
MA	314	Applied Probability and Statistics	3
MA	345	Real Analysis I	3
MA	300/400	Electives	9
PHY	210*	General Physics I	4
PHY	211*	General Physics II	4
		Total semester hours	50

Mathematics, Actuarial Science Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
BUS	130	Intro to Business & Management	3
ECO	101*	Principles of Macroeconomics	3
ECO	102*	Principles of Microeconomics	3
MA	231*	Calculus I	4
MA	260*	Discrete Structures	3
MA	232	Calculus III	4
MA	233	Calculus II	4
MA	280	Linear Algebra and Matrix Theory	3

MA	308	Operations Research	3
MA	310	Numerical Analysis	3
MA	314	Applied Probability and Statistics	3
MA	371	Mathematical Statistics I	3
MA	372	Mathematical Statistics II	3
MA	300/400	Electives	6
MA	400/499	Elective	3
PHY	210*	General Physics I	4
PHY	211*	General Physics II	4
		Total semester hours	65

Mathematics Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Techniques	2
ED	302	Instructional Technologies	2
ED/PSY	305	Educational Psychology	3
ED	310	Reading Practicum in the Content Area	3
ED	314	Teaching of Mathematics in Secondary School	3
ED	400	Student Teaching	12
ED	410	Historical and Current Issues in Education	3
HST	201*	American History through Civil War	
	or		3
HST	202*	American History - Reconstruction to Present	
MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233	Calculus III	4
MA	260	Discrete Structures	3
MA	280	Linear Algebra and Matrix Theory	3
MA	304	History and Philosophy of Mathematics	3
MA	314	Applied Probability and Statistics	3
MA	329	Modern Geometry I	3
MA	361	Modern Algebra I	3
MA	300/400	Electives	12
PHY	210*	General Physics I	4
PHY	211*	General Physics II	4
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
		Total semester hours	93

Computer & Information Science, Computer Science Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CIS	104	Computer Science I	3
CIS	105	Business Programming Concepts I	3
CIS	204	Computer Science II	3
CIS	205	Business Programming Concepts II	3
CIS	301	Data Structures	3

CIS	310	Systems Analysis	3
CIS	325	Operating Systems	3
CIS	330	Computer Organization	3
CIS	335	Assembly Language Programming	3
CIS	340	Database Systems	
	or		3
CIS	490	Computer Communications	
CIS	430	Program Translation	3
Major Related Electives			12
MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	260	Discrete Structures	3
MA	314	Applied Probability and Statistics	3
MA	200/400	Choice	6
		Total semester hours	65

Computer & Information Science, Information Systems Concentration (B.S.): 128 s.h.
(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
ACC	315	Managerial Accounting	
	or		3
ACC	350	Cost Accounting I	
BUS	130	Intro to Business & Management	3
BUS	230	Management Principles	3
CIS	104	Computer Science I	3
CIS	105	Business Programming Concepts I	3
CIS	204	Computer Science II	3
CIS	205	Business Programming Concepts II	3
CIS	301	Data Structures	3
CIS	308	Operations Research	
	or		3
BUS	349	Quantitative Business Analysis	
CIS	310	Systems Analysis	3
CIS	330	Computer Organization	3
CIS	340	Database Systems	
	or		3
CIS	490	Computer Communications	
CIS	401	Management Information Systems	3
Major Related Electives			12
ECO	101*	Principles of Macroeconomics	
	or		3
ECO	102*	Principles of Microeconomics	
MA	125*	Introductory Statistics	
	or		3
MA	314*	Applied Probability and Statistics	
MA	129*	Finite Mathematics	
	or		3
MA	260*	Discrete Structures	

	or		3
MA	280*	Linear Algebra and Matrix Theory	
MA	170*	Fundamentals of Calculus	
	or		3-4
MA	231*	Calculus I	
		Total semester hours	72-73

PROGRAM REQUIREMENTS :MINORS

Mathematics Minor: 17 s.h.

The minor in mathematics provides a strong background in mathematics but is flexible enough to be tailored to a variety of different majors.

MA 231, 232, 314; 6 s.h. of two math courses at 200 level or above.

Statistics Minor: 15 s.h.

The minor in statistics provides a strong background in statistics useful in many disciplines. Students may tailor this minor to their interests by careful choice of courses.

12 s.h. from MA 125, 126, 301, 308, 314, 315, or 371; 3 s.h. from BI 350, 401, BUS 349, CIS 205, ECO 305, 310, 405, MA 170, NUR 360, PSC 235, PSY 201, or SOC 308.

Computer Science Minor: 18 s.h.

The Computer Science minor provides a strong background in computation and programming for students majoring in a technical, scientific, or mathematical area.

12 s.h. consisting of CIS 104, 204, 301, 330; 6 s.h. consisting of two CIS courses at 300/400 level

Information Systems Minor: 15 s.h.

The Information Systems minor provides a strong background in office applications software and systems analysis for students majoring in business-related fields of study.

15 s.h. consisting of CIS 103, 203, 308, 310, 401

General Computing Minor: 18 s.h.

The General Computing minor provides a solid background in computing that is custom-tailored to the student's field of study. This minor is primarily intended for students in majors other than business, mathematics, and the sciences.

12 s.h. consisting of CIS 103, 104, 203 or 204, 303; 6 s.h. in computer related courses.

PROGRAM REQUIREMENTS: ASSOCIATE DEGREE PROGRAM

Computer Information Systems (A.S.): 60 s.h.

(*courses with asterisk may also satisfy General Education requirement)

ACC	110	Introduction to Accounting I	3
ACC	111	Introduction to Accounting II	3
BUS	230	Management Principles	3
CIS	103	Introduction to Microcomputers	3
CIS	104	Computer Science I	3
CIS	203	Business Software Applications	3
CIS	204	Computer Science II	3

CIS	303	Computer Networks	3
CIS	300/400	Electives	6
ECO	101*	Principles of Macroeconomics	
	or		3
ECO	102*	Principles of Microeconomics	
ENG	230*	Writing for Business and Technology	3
MA	125*	Introduction to Statistics	3
PHL	230*	Introduction to Logic	3
		Total semester hours	42

MUSIC

Professors Brown, Galloway, Owens, Wunderlich
Associate Professors Amchin, Borsheim, Boston, Dettwiler, Kim, Murphy (chairperson), Sarch, Teal
Assistant Professors Brennan, Eidenier, McEuen, Monaghan
Instructors Cohen, Laib, Stalker

The Music Department offers five degree programs leading to the baccalaureate degree with a major in music.

The Bachelor of Music in Music Education program is accredited by the National Association of Schools of Music, the Pennsylvania Department of Education, the National Council of Accreditation of Teacher Education, and the Middle States Association of Colleges and Secondary Schools. Completion of the degree requirements leads to certification by the Commonwealth of Pennsylvania for the recipient to teach music in kindergarten through high school, both vocal and instrumental.

The Bachelor of Music in Music Therapy offers challenge, opportunity, and special rewards to those interested in working with people. Children and adults who require therapy because of behavioral, psychological, and/or physical disorders are helped through the use of music. The skills of the music therapist are needed in a variety of places, including mental hospitals, geriatric centers, day care facilities, community health centers, and substance abuse agencies. Graduates are eligible to apply for registration as a music therapist (R.M.T.) through the National Association for Music Therapy, of which the department is a member.

The Bachelor of Music with Elective Studies in Business is a program designed for students who want to prepare for careers in the music industry including music retailing, publishing, entertainment, and arts promotion. An intern program provides the student with field experiences prior to graduation.

The Bachelor of Music in Music Performance is available in piano, organ, guitar, voice, percussion, and any standard string, brass, and woodwind instrument.

The Bachelor of Arts in Music is designed for students with a strong interest and ability in music but who do not have immediate vocational goals.

The Music Department offers a Music Minor for students in other majors with appropriate interest and aptitude to obtain a minor in music.

The Master of Music in Music Education is designed for teachers of music. Students without public school certification may wish to meet these requirements while simultaneously pursuing the M.M. degree.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Music (B.A.): 128 s.h.

MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
MU	321	Medieval and Renaissance Music	3
MU	322	Baroque and Pre-Classical Music	3
MU	xxx	Music Theory or Literature Elective	3
Music Elective(Voice students MU 352)			3
Applied Music (Major 8, Secondary 2, Ensemble 2)			12
		Total semester hours	42

Music Education (B.M.): 133 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED/PSY	305	Educational Psychology	3
ED	401	History and Philosophy of Education	3
MU	141	Introduction to Music Education	1
MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	250	Basic Conducting	1
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
MU	315	Orchestration	3
MU	317	Keyboard Skills I	1
MU	318	Keyboard Skills II	1
MU	321	Medieval and Renaissance Music	3
MU	322	Baroque and Pre-Classical Music	3
MU	341	Music in the Elementary School	2
MU	342	Music in the Secondary School	2
MU	343	Instrumental Music in the Public School	
	or		2
MU	344	Vocal-Choral Music in the Public Schools	
MU	350	Choral Conducting	
	or		2
MU	351	Instrumental Conducting	
MU	400	Student Teaching	12
Applied Music (Voice Students require MU 352)			
(Major 14, Secondary 11, Ensemble 7)			30-32
Electives (No MAP or MEN)			2-3
PSY	101*	Introduction to General Psychology	3
SPE	360	Exceptional Children in the Regular Classroom	3
		Total semester hours	95-98

***Voice students require MU 352

Music Therapy (B.M.): 133 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Human Anatomy and Physiology I	4
BSC	122*	Human Anatomy and Physiology II	4
MTH	171	Therapy Orientation	3
MTH	210	Clinical Integration I	1
MTH	211	Clinical Integration II	1
MTH	211L	Clinical Orientation Lab	1
MTH	352	Movement in Music Therapy	2
MTH	372	Psycho-Social Foundations of Music	3
MTH	410	Advanced Clinical Integration I	1
MTH	410	Advanced Clinical Integration I	1
MTH	411	Advanced Clinical Integration II	1
MTH	411	Advanced Clinical Integration II	1
MTH	471	Influence of Music on Behavior	3
MTH	472	Music inTherapy	3
MTH	475	Internship	2
MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	250	Basic Conducting	1
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
MU	315	Orchestration	3
MU	317	Keyboard Skills I	1
MU	318	Keyboard Skills II	1
MU	321	Medieval & Renaissance Music	3
MU	322	Baroque & Pre-Classical Music	3
PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	3
Major Related Electives			
PSY	201	Tests and Measurements in Psychology	
	or		
PSY	202	Survey and Data Analysis	3-4
	or		
PSY	250	Experimental Design I	
	or		
SOC	307	Social Research I: Research Design & Data Collection	
	or		
SOC	308	Social Research II: Analysis, Interpretation, & Applications	
	Applied Music (Voice Students Plus 352)		22-24
	(Major 11, Secondary 9, Ensemble 4)		
PSY	391	Abnormal Psychology	3
SOC/ANH	xxx	Choice	3
	or		
SPE	101	Exceptional Persons in Society	3
		Total semester hours	101-103

Music-Elective Studies in Business (B.M.): 133 s.h.

ACC	110	Principles of Accounting I	3
BUS	130	Introduction to Business and Management	3
BUS	330	Marketing	3
BUS	370	Salesmanship	3
BUS	410	Business Law I	3
CIS	103	Introduction to Microcomputers	3
COM	210	Introduction to Public Relations	3
ECO	102*	Principles of Microeconomics	3
MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	250	Basic Conducting	1
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
MU	317	Keyboard Skills I	1
MU	318	Keyboard Skills II	1
MU	321	Medieval & Renaissance Music	3
MU	322	Baroque & Pre-Classical Music	3
MU	481	Survey of the Business of Music	3
MU	489	Internship - Music Merchandising	12
Music Electives			3
Applied Music (Major 7, Secondary 7, Ensemble 7)			21
	xxx	Choose One of the Following:	6
		Arts Management, Publishing, Sales, Personalized	
		Total semester hours	96

Music Performance, Keyboard Concentration (B.M.):128 s.h.

MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	250	Basic Conducting	1
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
MU	321	Medieval and Renaissance Music	3
MU	322	Baroque and Pre-Classical Music	3
MU	323	Studies in Keyboard	3
MU	350	Choral Conducting	
	or		2
MU	351	Instrumental Conducting	
MU	472	Piano Pedagogy	2
MU	473	Practicum in Piano Teaching	1
Music Electives			5
Applied Music (Major 28, Secondary 8, Ensemble 12)			48
History/ Literature & Theory Elective			3
		Total semester hours	89

Music Performance, Instrumental Concentration (B.M.): 128 s.h.

MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	250	Basic Conducting	1
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
MU	321	Medieval and Renaissance Music	3
MU	322	Baroque and Pre-Classical Music	3
MU	350	Choral Conducting	
	or		2
MU	351	Instrumental Conducting	
MU	475	Woodwind Pedagogy	
	or		3
MU	476	Brass Pedagogy	
	or		
MU	477	Percussion Pedagogy	
MU	xxx	Choice	2
Music Electives			6
Applied Music (Major 28, Secondary 8, Ensemble 12)			48
History, Literature & Theory Elective			3
		Total semester hours	89

PROGRAM REQUIREMENTS: MINORS

Music Minor

24 s.h. in music: MU 211, 212, 221, 222; 6 s.h. music electives excluding MU 101; 4 s.h. in major performance area, 2 s.h. in large ensemble.

PHILOSOPHY AND LIBERAL STUDIES

Professors Bickham (chairperson), Newman, Young
Associate Professor, Timko

Philosophy courses are open to all students, and Philosophy offers courses in the humanities area of General Education. Philosophy courses provide students the opportunity to discuss important questions of life in an adult manner. Philosophy is concerned with such issues as the meaning of life, whether we are really free, the nature of the self, how we can determine what is morally right and wrong, proper reasoning (Logic), whether there is a God, the nature of religion, science, and art. The department offers a B.S. and B.A. in philosophy, a minor in philosophy, and also sponsors the liberal studies major, the Canadian Studies minor, and the associate degree in liberal studies.

A Philosophy major provides an excellent grounding in the fundamental ideas and concepts of our culture. It thus explains a great deal of why we are the way we are and do the things we do. Students are introduced to major philosophers such as Plato, Aristotle, Descartes, and Hume. The major is appropriate for those wishing to pursue advanced degrees in Philosophy, and is also excellent training for any profession requiring skill in analytic reasoning, writing, and argumentation. The Philosophy Department

advises pre-law students at Mansfield. There is sufficient flexibility in the Philosophy major to allow students to combine Philosophy as a double major with any other B.A. or B.S. program.

Philosophy Minor
Eighteen semester hours in Philosophy are required, with at least nine of these being at the upper division level.

Canadian Studies Minor
The formal study of Canada is a critical element in the education of the next generation of leaders, providing a significant, accessible avenue for understanding global interdependence and multi cultural environments. Moreover, with Canada and the United States as each other's largest trading partner, learning about Canada as a foreign market makes increasingly good economic sense, especially as the North America Free Trade Agreement (NAFTA) becomes fully implemented and international job mobility increases.

The Canadian Studies Minor provides the student with a multi disciplinary approach to understanding the history, literature, economics, politics, business, fine arts, educational systems, and the physical and cultural environments of our northern neighbor. Building on the theoretical and practical content of the core course, the student selects courses from across the curriculum wherever Canadian content or perspectives are designated.

Requirements
The minor (18 s.h.) consists of the core course, a seminar or internship, two directed electives, and two free electives. The core course, Introduction to Canada, counts as a Group I General Education Distribution requirement, whether or not the student completes the minor. One of the directed electives must be from arts, humanities, or languages; the other from social science or professional studies. The two free electives may be chosen in consultation with the Director of Canadian Studies from among designated courses. The significant culminating requirement of the minor is either an in-depth seminar on a Canadian topic or an internship with a business or agency with Canadian interests.

LIBERAL STUDIES
The Liberal Studies major allows students to combine course offerings from across the university to construct for themselves a custom program in a specialty in which the university does not grant a degree. Thus students could combine in Business, Communication, Art, and Journalism to construct a concentration in Advertising; or Anthropology, History and Art History for Museum Studies. The program fosters creativity among students in putting together these combinations.

Students in Liberal Studies fulfill the university's General Education program and either take an academic minor or achieve second year proficiency in a foreign language. There are no specific course requirements for Liberal Studies. The structural heart of the program is the 24 hour rule. This rule holds that for a Liberal Studies student no more than 24 semester hours in any individual prefix area can be counted towards the number of hours needed for graduation (128). (Note that BUS, MUS, ART, ED, and ELE are each separate course prefix areas.) The 24 hour rule ensures that Liberal Studies will be used as a combined major, and it is strictly enforced.

Liberal Studies students may design an official academic concentration for themselves. This involves the student's submitting a sequence of courses to be taken to a faculty committee chosen by the Liberal Studies Advisor. If the course sequence is approved by the faculty committee and the Provost, and completed by the student, a notification of the academic concentration will be made on the student's official transcript.

The Philosophy Department houses the Liberal Studies program. Interested students should contact the chairperson, Dr. Stephen Bickham (717-662-4742), for information.

The Associate of Arts in Liberal Studies (A.A.) gives students an opportunity to obtain a two-year degree credential in a wide variety of concentrations. The degree is designed for ease of transfer to a Bachelor's level program. It is an excellent choice for students not certain that they wish to make a four year commitment, but who wish to explore college or enrich themselves academically and receive credit for doing so.

To complete the program, a student satisfies the special General Education component of 34-36 credits. The student also selects an area of concentration from one of the departments offering courses in the Humanities, Foreign Languages, or Social Science areas. (See below). The content of this concentration is the same as that of the Bachelor's level minor program, and varies between 15 and 21 semester hours. There is also a small number of free electives in the program, depending on the area of concentration chosen by the student.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Philosophy Major, (B.A.) 128 s.h.

PHL	201	Introduction to Philosophy	
	or		3
PHL	202	Contemporary Moral Problems	
PHL	230	Introduction to Logic	3
PHL	300/400	Electives	9
PHL	420	Classic Greek Philosophy	3
PHL	422	Topics in Modern Philosophy	3
PHL	423	20th Century Philosophy	3
PHL	xxx	Electives	9
		Total Semester Hours	33

Philosophy Major, (B.S.): 128 s.h.

PHL	201	Introduction to Philosophy	
	or		3
PHL	202	Contemporary Moral Problems	
PHL	230	Introduction to Logic	3
PHL	300/400	Electives	9
PHL	420	Classic Greek Philosophy	3
PHL	422	Topics in Modern Philosophy	3
PHL	423	20th Century Philosophy	3
PHL	xxx	Electives	9
Collateral Studies (from another B.S. program)			18
		Total Semester Hours	51

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAM

Liberal Studies (B.A.): 128 s.h.
See narrative above on Liberal Studies

PROGRAM REQUIREMENTS: ASSOCIATE DEGREE PROGRAM

Liberal Studies (A.A.):61 s.h.
See narrative above on Liberal Studies.

PHYSICS

See Chemistry and Physics

POLITICAL SCIENCE

See History and Political Science

PSYCHOLOGY

Professors Feil, Grace, Keller (chairperson), Murray, Seidel
Associate Professors Brown, Launius, Loher

The Psychology Department offers a B.S. degree in Psychology with concentrations in Psychology and Human Resource Management. The Psychology concentration is chosen by students who (1) plan advanced study in the field, (2) intend to seek employment in a related area upon graduation, or (3) seek a liberal arts background within the Psychology major. Many graduates enter master's degree programs in counseling or related fields.

The Human Resource Management concentration is designed to provide the foundation skills needed to fulfill traditional and newly emerging roles in personnel administration and human resource management. The track is often selected by students who have interests in both psychology and business management. Students usually intend to seek entry level human resource management positions in business, service, or health care settings. Some elect to obtain graduate level training in business administration or related areas. The Department also sponsors a B.S.E. program in social studies with a psychology concentration. Graduates of this program are certified to teach secondary school/social studies.

Minors are available in Psychology and Psychology of Human Development. The Psychology minor provides a general survey of the field as well as an introduction to methods of psychological measurement and research. The Psychology of Human Development minor provides more focused study in areas of child, adolescent, or adult development.

Careful advisement of students is a priority of the Psychology Department. All students must complete a thorough orientation to the major, and their subsequent studies are guided by a goal-oriented process. All students maintain a portfolio to assess their learning and guide their academic and professional development. The portfolio is submitted for final review in conjunction with the department's senior seminar course.

Students are involved in various forms of research under faculty direction. Students present their research at the annual Psychology Research Symposium.

Many students report the internship to be an important part of their educational experience. For some, the internship leads directly to a job offer. The Psychology Department maintains relationships with a broad range of organizations that offer internships in counseling, other human services, health care, or business. To qualify for an internship students must maintain a B average in the major. Advisors work closely with students to plan the internship and ensure that the experience is successful.

To satisfy requirements for graduation as a Psychology major, students must (1) satisfy the University's general education and degree requirements, (2) complete the Psychology course requirements, (3) submit an acceptable portfolio, (4) pass a comprehensive exit examination, and (5) complete either an independent research project or an internship.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Psychology, (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

MA	125*	Introduction to Statistics	3
PSY	101	Introduction to General Psychology	3
PSY	151	Introduction to Application of Psychology	3
PSY	201	Tests and Measurements	3
PSY	202	Survey and Data Analysis	
	or		3
PSY	250	Experimental Design I	
PSY	290	Life Span Development	3
PSY	310	Social Psychology	
	or		
PSY	391	Abnormal Psychology	
	or		3
PSY	430	Theories of Personalities	3
PSY	490	Senior Seminar	3
PSY	495	Professional Experience	
	or		
PSY	496	Research Apprenticeship	
	or		3
PSY	497	Independent Study	
Psych/Lab Electives			4
PSY	350	Experimental I: Learning (3)	
PSY	350L	Experimental I: Lab (1)	
PSY	351	Experimental II: Perceptual Processes (3)	
PSY	351L	Experimental II: Lab (1)	
PSY	460	Physiological Psychology (3)	
PSY	460L	Physiological Psychology Lab (1)	
Select Group A or B			
Group A			6
PSY	300	Helping Skills (3)	
PSY	301	Theories Counseling (3)	
	Or		
Group B (select 2 with labs)			8
PSY	350	Experimental I: Learning (3)	
PSY	350L	Experimental I: Lab (1)	
PSY	351	Experimental II: Perceptual Processes (3)	

PSY	351L	Experimental II: Lab (1)	
PSY	460	Physiological Psychology (3)	
PSY	460L	Physiological Psychology Lab (1)	
PSY	461	Experimental Social Psychology (4)	
PSY	462	Behavior Modification (3)	
PSY	462L	Behavior Modification: Lab (1)	
		Total semester hours	48

Psychology, Human Resource Management Concentration (B.S.): 128 s.h.

(*courses with asterisk may satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
BUS	130	Introduction to Business and Management	3
ECO	102*	Principles of Microeconomics	3
MA	125*	Introduction to Statistics	3
PSY	101	Introduction to General Psychology	3
PSY	151	Introduction to Application of Psychology	3
PSY	201	Tests and Measurements	3
PSY	202	Survey and Data Analysis	
	or		3
PSY	250	Experimental Design I	
PSY	290	Life Span Development	3
PSY	310	Social Psychology	
	or		
PSY	391	Abnormal Psychology	
	or		3
PSY	430	Theories of Personalities	3
PSY	311	Introduction to Small Group Processes	3
PSY	313	Psychology of Interviewing	3
PSY	332	Psychology of Stress Management	3
PSY	410	Industrial & Organizational Psychology	3
PSY	462	Behavior Modification	3
PSY	491	Human Resource Management	3
PSY	495	Professional Experience	
	or		3
PSY	497	Independent Study	
SOC	101*	Introduction to Sociology	3
		Total semester hours	57

Social Studies Comprehensive, Psychology Concentration (B.S.E.): 128 s.h.

(*courses with asterisk may satisfy General Education requirements)

ANH	xxx*	Choice	3
ECO	xxx*	Choice	3
ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Technique	2
ED	302	Instructional Technology	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3

ED	315	Teaching of Social Studies in Secondary Schools	3
ED	400	Student Teaching	12
ED	410	Historical and Current Issues in Education	3
GEG	xxx*	Choice	3
HST	101	Western Civilization I	3
HST	102	Western Civilization II	3
HST	201	American History through the Civil War	3
HST	202	American History- Reconstruction to the Present	3
HST	xxx	20th Century U.S.	
	or		3
SOC	101	Introduction to Sociology	
HST	xxx	Third World Area Studies	6
PSC	xxx*	Choice	3
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
Psychology Emphasis Electives			15
		Total semester hours	88

PROGRAM REQUIREMENTS: MINORS

Psychology Minor: 18 s.h.
PSY 101, 201 or 250, 290, 391 and 6 s.h. by advisement. MA 125 recommended.

Psychology of Human Development Minor: 18 s.h.
PSY 101, 290, 391 or 430. 6 s.h. from PSY 292, 321, 323, 324; 3 s.h. from PSY 210, 212, 310, 421, 422, or 430.

ROBERT PACKER DEPARTMENT OF HEALTH SCIENCES

Associate Professors Biblehimer, Sheehe (chairperson)
Assistant Professors DePumpo, Materese, McEwan, McGuire, Seigart, Wright
Instructor VanDuzer
Clinical Instructors Abrey, Gold, O'Donnell, Soto, Valderrey

Baccalaureate of Science in Nutrition and Dietetics: 128 s.h.
Mansfield University's American Dietetic Association approved program includes specialized courses in nutrition, food service, chemistry, psychology, and biology. Students have the opportunity to learn about community nutrition, food service management, and dietetics in a hands on environment.

Graduates of this program have two options: (1) to obtain an American Dietetic Association accredited internship in order to become a Registered Dietitian or (2) to obtain an entry level job in the fields of nutrition or food service management.

Career opportunities in this growing field include jobs in schools, industry, food service operations, hospitals, nursing homes, private practice, and a variety of public and private organizations.

Baccalaureate of Science in Nursing (B.S.N.): 131 Credits
Mansfield University's nursing program blends the resources of a public university and a regional medical center. This combination leads to a program that is both academically and clinically strong. The nursing program is accredited by the National League for Nursing and approved by the Pennsylvania State Board of Nursing. The curriculum provides a solid background in nursing as well as the liberal arts and sciences.

Students spend their first two years on the Mansfield campus taking courses in general education and nursing. The second two years are at the Sayre site where they engage in a wide range of clinical experiences at the Robert Packer Hospital. Students also have the opportunity to learn in community settings such as nursing homes, elementary and secondary schools, nursery schools, and outpatient clinics, in addition to traditional public health agencies.

The goals of the program are to provide students with the essentials skills necessary to develop intellectual curiosity, critical thinking, communication skills, therapeutic nursing skills which provide the basis for the development of a successful and professional nursing practitioner. This educational program prepares individuals for career opportunities in acute, chronic and community settings.

A.A.S., Radiology Technology: 67 s.h.
This is a two-year, joint program with Mansfield University and Guthrie Healthcare System in Sayre, PA. It includes course work at Mansfield during the first semester. Other coursework and clinical experiences are at the Robert Packer Hospital during the second through fourth semesters. Summer clinical courses are a requirement of the program. The curriculum prepares students for an entry-level position as a radiology technologist. Graduates of this program are eligible to sit for the radiology technology certification examination.

A.A.S., Respiratory Therapy: 71 s.h.
This is a two-year, joint program with Mansfield University and Guthrie Healthcare System in Sayre, PA. It includes coursework at Mansfield during the first semester. Other coursework and clinical experiences are at the Robert Packer Hospital during the second through fourth semesters. Summer clinical courses are a requirement of the program. The curriculum prepares students for an entry-level position as a respiratory therapist. Graduates of this program are eligible to sit for the respiratory therapist certification examination.

DEGREE REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Nutrition and Dietetics (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	371	Microbiology	4
BSC	121	Human Anatomy and Physiology I	4
BSC	122	Human Anatomy and Physiology II	4
BUS	130	Introduction to Business and Management	3
CHM	101*	Introduction to Chemistry	4
CHM	102*	Organic and Biochemistry	4
CHM	201	Introduction to Biochemistry	4
DIT	211	Introduction to Nutrition	3
DIT	305	Principles of Food Science	3
DIT	306	Meal Management	3
DIT	314	Nutrition Throughout the Life Cycle	3
DIT	315	Food Service Organization and Management	3
DIT	316	Community Nutrition	3
DIT	410	Diet Therapy	3
DIT	411	Quantity Food Production	4
DIT	417	Survey of Nutrition	3
DIT	xxx	Choice	3
ECO	101*	Principles of Macroeconomics	
	or		3
ECO	102*	Principles of Microeconomics	
ED/PSY	305	Educational Psychology	3
MA	125*	Introduction to Statistics	3
PSY	101*	Introduction to General Psychology	3
PSY	300	Helping Skills	3
PSY	391	Abnormal Psychology	3
SOC	xxx*	Choice	3
		Total semester hours	79

Nursing (B.S.N.): 130 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Human Anatomy and Physiology	4
BSC	122	Human Anatomy and Physiology II	4
BSC	271	Microbiology	4
CHM	110*	Survey of Chemistry-Introductory, Organic, and Biological	4
DIT	211	Introduction to Nutrition	3
MA	125*	Introduction to Statistics	3
NUR	250	Nursing and Health Care I	4
NUR	251	Nursing and Health Care II	4
NUR	360	Introduction to Nursing Research	3
NUR	370	Nursing of the Adult Client	8
NUR	371	Nursing Care of Childbearing and Childrearing Families	8
NUR	380	Nursing Physical Assessment	2
NUR	390	Pharmacological Basis for Nursing Practices	2
NUR	460	Current Issues in Professional Nursing	3
NUR	470	Nursing Care of the Client with Multi system Stressors	9

NUR	471	Community Health Nursing	6
NUR	472	Mental Health Nursing	6
NUR	480	Leadership and Management in Nursing	3
Nursing Elective			3
PHL	380*	Health Care Ethics	3
PSY	290*	Life Span Development	3
SOC	101*	Introduction to Sociology	3
		Total semester hours	92

DEGREE REQUIREMENTS: ASSOCIATE DEGREE PROGRAMS

Radiology Technology (A.A.S.):70 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Human Anatomy & Physiology I	4
BSC	122*	Human Anatomy & Physiology II	4
CIS	103*	Introduction to Microcomputers	3
COM	101*	Oral Communication	3
ENG	112*	Composition I	3
MA	xxx*	MA 125, 165, 170, or 231	3-4
PHL	191*	Ethical Issues in Allied Health Care	3
PHY	165*	Physics for the Allied Health Sciences	3
PSY	101*	Introduction to General Psychology	3
SOC	101*	Introduction to Sociology	3
	xxx*	Free Elective	3
XRT	101	X-Ray Technology I	3
XRT	102	X-Ray Technology II	3
XRT	103	X-Ray Technology III	5
XRT	104	X-Ray Technology IV	3
XRT	105	X-Ray Technology V	3
XRT	106	X-Ray Technology VI	4
XRT	203	X-Ray Physics	3
XRT	301	Clinical Practicum I	2
XRT	302	Clinical Practicum II	2
XRT	303	Clinical Practicum III	2
XRT	304	Clinical Practicum IV	3
XRT	305	Clinical Practicum V	2
		Total semester hours	70-71

Respiratory Therapy (A.A.S.): 71 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Human Anatomy & Physiology I	4
BSC	122*	Human Anatomy & Physiology II	4
CHM	101*	Introduction to Chemistry	4
CIS	103*	Introduction to Microcomputers	3
COM	101*	Oral Communication	3
ENG	112*	Composition I	3
MA	xxx*	MA 125, 165, 170, or 231	3-4
PHL	191*	Ethical Issues in Allied Health Care	3
PSY	101*	Introduction to Psychology	3

RTH	101	Fundamentals of Respiratory Care I	3
RTH	102	Fundamentals of Respiratory Care II	4
RTH	111	Pulmonary Function Testing	2
RTH	112	Arterial Blood Gases	1
RTH	199	Clinical Practicum I	2
RTH	200	Clinical Practicum II	5
RTH	209	Clinical Practicum III	3
RTH	210	Clinical Practicum IV	5
RTH	204	Pharmacology	2
RTH	207	Pulmonary Disease	2
RTH	208	Perinatal/Pediatric Respiratory Care	2
RTH	211	Mechanical Ventilation	4
RTH	212	Advanced Cardiopulmonary Care	3
SOC	101*	Introduction to Sociology	3
		Total semester hours	71

SOCIAL WORK, ANTHROPOLOGY, AND SOCIOLOGY

Professors Kasambira, Largey, Mabe, Miller (chairperson), Wooley
Associate Professor Funmaker
Assistant Professor Wingfield

Social Work Major

Mansfield University's Social Work Program is accredited by the Council on Social Work Education (CSWE) at the Baccalaureate level.

The mission of Mansfield University's Social Work Program is (1) to provide baccalaureate social work education based on a liberal arts perspective that prepares students for generalist social work practice in entry level positions in social services, (2) to maintain a diverse faculty who reflect the spirit and intent of principles of affirmative action and equal opportunity as a model for students, (3) to prepare students for graduate education in social work, and (4) to provide continuing education and professional consultation to social agencies in the region.

The goals of the Social Work Program are (1) to prepare students to facilitate positive changes in the behavior of individuals, families, groups, organizations, and communities, (2) to teach students to recognize and respond appropriately to differences that occur in the behavior of diverse populations, (3) to enable students to act in accord with social work ethics and standards of practice, laws, regulations, and agency policies, and (4) to instill in students a value of lifelong learning as the principle mechanism for professional growth.

Our graduates begin their careers in child welfare, mental health and retardation programs, drug and alcohol programs, programs for the aging, hospitals, nursing homes, neighborhood centers, day care centers, and a variety of other public and private social service agencies. Many enter graduate schools of social work where they may apply for advanced standing based on the accredited status of our program.

Persons with a degree in social work are eligible for the second level (County Caseworker 2) examination offered by Pennsylvania's Civil Service Commission.

Accreditation by the Council on Social Work Education provides access to licensing examinations in those states that regulate social work practice at the baccalaureate level.

Formal admission to the Social Work Program is obtained by applying to the university through the Office of Admissions or completion of the appropriate petitions requesting to major in Social Work and an interview with the Director of the Social Work Program. Students accepted by the university are expected to demonstrate their appropriateness for social work education during their first three semesters.

Students admitted to the program may not receive credit toward the BSW degree by virtue of life's experiences. Internship credits received in associate degree programs may not be applied to BSW program requirements.

Students intending to work with children in Pennsylvania must complete with the provisions of Act 34 of the PA Legislation requiring screening through the PA State Police and the Child Abuse Hotline.

Sociology/Anthropology

Sociology is the scientific study of human social behavior. Sociologists study the processes and patterns of individual and group interaction, the forms of organization of social groups, the relationships among them, and group influences on individual behavior. Focus is given to the understanding of group or other collective factors in human behavior.

Anthropology is the study of humankind. To incorporate all aspects of the human experience, anthropology has four major subdisciplines: Physical Anthropology, the study of the biological evolution of humans; Archaeology, the study of the evolution of culture; Linguistic Anthropology, the study of human languages; and Cultural Anthropology, the study of the variations and similarities of human behavior cross-culturally. The department offers introductory courses in all four subdisciplines but the major focus is in cultural anthropology.

The major in Sociology/Anthropology prepares students for a variety of careers in our increasingly multi-cultural society through critical thinking and evaluation, and appropriate research methods and analysis. Students are encouraged to choose a concentration in either Sociology or Anthropology, but a broad based, liberal education in both and interdisciplinary studies outside the department is strongly recommended. The program is designed to allow students maximum flexibility to pursue their interests and career goals and combines easily with minors in other disciplines.

A bachelor's degree prepares students for entry-level positions in marketing, political survey analysis, applied human relations in both the public and private sector, and research organizations. In addition, a concentration in Anthropology prepares students for employment in archaeology and the many organizations which hire anthropologists for applied human relations work with diverse cultures such as refugee and immigrant communities. The degree also prepares students for graduate work in either Sociology or Anthropology, and is an excellent background for advanced degrees in many other disciplines.

The department also offers the following minors: Anthropology, African-American Studies, Native North American Studies, Social Welfare and Sociology.

The Anthropology minor is designed to complement majors in the social sciences, humanities, and professional studies which train students to work with people who have backgrounds different from their own. Interest, however, is also a good reason.

The African-American minor is designed for students interested in the literary, historical, artistic, and sociological significance of African-American culture. It is a structured and interdisciplinary course of study.

The Native North American minor is concerned with traditional and contemporary Native nations located pre-historically in the Native Western Hemisphere but now in Indian Country, United States of America, Canada, and Mexico.

The Social Welfare minor prepares students majoring in business, criminal justice administration, computer sciences, psychology, biology, art, nursing, and others who intend to work in social welfare systems to understand those systems. The minor offers information on organizations, cultures, policies, and services as viewed from a sociological, anthropological and social work perspective.

The Sociology minor is especially recommended for Criminal Justice, Public Relations, Marketing, and Social Work majors.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Social Work, (B.S.W.) 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ANH	101*	Cultural Anthropology	3
BSC	101*	General Biology	4
PSY	101*	Introduction to General Psychology	3
PSC	320	Topics in Public Policy	3
SOC	101*	Introduction to General Psychology	3
SOC	121	Contemporary Social Problems	3
SOC	232	American Family Systems	3
SOC	301	Organizational Behavior	3
SOC	307	Social Research I:Research Design & Data Collection	3
SWK	241	Introduction to Social Work	3
SWK	257	Social Work Program Orientation	1
SWK	258	Social Worker's Professional Responsibilities	1
SWK	259	Current Professional Issues in Social Work	1
SWK	300	Human Behavior and the Social Environment	3
SWK	308	Evaluation Research	3
SWK	315	Evolution of Social Welfare in America	3
SWK	350	Social Work Methods: Small Groups	3
SWK	351	Social Work Methods: Organizations	3
SWK	352	Social Work Methods: Families	3
SWK	353	Social Work Methods: Individuals	3
SWK	452	Social Work Field Placement	12
SWK	453	Senior Seminar	3
		Total semester Hours	70

Sociology/ Anthropology (B.A.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ANH	101*	Cultural Anthropology	3
ANH	410	Ethnographic Field Methods	3
ANH	480	Anthropological Theory	
	or		3
SOC	480	Sociological Theory	
ANH	490	Field Study	
	or		3
SOC	497	Independent Study	

PHL	230*	Introduction to Logic	3
SOC	101*	Introduction to Sociology	3
ANH/SOC	100/200	Electives	9
ANH/SOC	300/400	Electives	9
	300/400	Humanities or Social Science Electives	9
		Total semester hours	45

Social Studies, Sociology/Anthropology Concentration (B.S.E.): 128 s.h.
(*courses with asterisk may also satisfy General Education requirements)

ANH	xxx*	Choice	3
ECO	xxx*	Choice	3
ED	101	Introduction to Education	1
ED	202	Secondary Pre-Professional Experience	2
ED	301	Evaluative Technique	2
ED	302	Instructional Technology	2
ED/PSY	305	Educational Psychology	3
ED	310	Basic Reading Practices for Content Area and Special Teachers	3
ED	315	Teaching of Social Studies in Secondary Schools	3
ED	400	Student Teaching	12
ED	410	Historical and Current Issues in Education	3
GEG	xxx*	Choice	3
HST	101	Western Civilization I	3
HST	102	Western Civilization II	3
HST	201	American History Through the Civil War	3
HST	202	American History - Reconstruction to the Present	3
	xxx	20th Century U.S.	
	or		3
SOC	101	Introduction to Sociology	
PSC	xxx*	Choice	3
PSY	101*	Introduction to General Psychology	3
PSY	321*	Adolescent Psychology	3
SPE	360	Exceptional Children in Regular Classes	3
	xxx	Third World Area Studies	6
SOC/ANH	xxx	Electives	15
		Total semester hours	88

PROGRAM REQUIREMENTS: MINORS

Anthropology Minor (18 s.h.): ANH 101; 6 s.h. from 100 & 200 level ANH courses by advisement; and 9 s.h from 300 & 400 level ANH courses by advisement

African-American Studies (18 s.h.): 6-9 s.h. form the following: ARH 329, ENG 220*, HON 100*, 101*, & 201*, ID 201*, or SOC 306; 6 s.h. of ANH 308, ENG 305*, ENG 320*, HST 310, or HST 388; either ENG 401* or independent study 497*. Electives: 3 s.h. from MUS 201, SOC 300, or SPE 330.

*when offered as an African-American topic

Native North American Studies Minor (18 s.h.): ANH 101, ANH 270, either SOC 200 or SPE 330; either ANH 305 or HST 430; 6 credit hours of electives: ENG 401*, ARH 324, ANH 405.

*when offered as a Native American topic

Social Welfare Minor (18 s.h.): SOC 101 or ANH 101, SOC 121, and SWK 101, 241, 300 and 315.

Sociology Minor (18 s.h.): SOC 101, SOC 121, SOC 301 and nine s.h. of SOC electives by advisement.

PROGRAM REQUIREMENTS: ASSOCIATE DEGREE PROGRAM

Social Welfare (A.A.S.W.): 63 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ANH	101*	Cultural Anthropology	3
BSC	101*	Introduction to Biology	4
PSC	201	American Politics	3
PSC	330	Public Policy	3
PSY	101*	Introduction to Psychology	3
SOC	101*	Introduction to Sociology	3
SOC	121	Contemporary Social Problems	3
SOC	232	American Family Systems	3
SWK	101	Human Services	3
SWK	250	Social Work Skills	3
SWK	257	Social Work Program Orientation	1
SWK	260	Practicum	3
		Total semester hours	35

SPECIAL EDUCATION

Professors Sexauer, Straub (chairperson)
Associate Professor Lucero
Assistant Professors Floyd, Lambert

The special education program at Mansfield University trains students to work with exceptional individuals through prescriptive teaching and practicum courses. Students who complete the special education program at Mansfield receive a Bachelor of Science in Education degree and a Pennsylvania Instructional I teaching certificate. This comprehensive certificate allows students to teach children from kindergarten through 12th grade (K-12) who are mentally retarded, emotionally disturbed, autistic, physically handicapped, learning disabled and brain injured. This Pennsylvania certificate may be made permanent upon the completion of 24 post-baccalaureate credits, three years of satisfactory teaching in one's field of certification, and completion of an induction year program.

Students may elect dual certification in elementary education and special education through a cooperative program offered by the Education and Special Education Departments. Both certifications will be recorded on the student's transcript.

The Department offers students an opportunity to choose elective courses in Special Education depending on individual students' areas of interest.

Practicum experiences in the local schools are required throughout the four undergraduate years. The student teaching program (SPE 400) offers two different training experiences during the senior year. Students then demonstrate diagnostic and prescriptive teaching skills by applying individual, small and large class teaching methods to maximize the educational development of each exceptional learner.

The department encourages all the special education majors to join the University student chapter of the Council for Exceptional Children (CEC), which has been chartered by the national CEC. The University CEC chapter offers students opportunities to work directly with exceptional persons on and off campus; receive professional newsletters, publications and information; attend state, national and international conferences regarding exceptional children; and develop leadership abilities.

Exceptional Persons

The Department also offers a B.S. program in Exceptional Persons designed for those interested in working with exceptional persons in a setting not requiring teacher certification.

Career opportunities include human service career workers; group home direct care workers and managers; child care/adult care workers in public and private residential facilities; direct care workers in interim care facilities for the mentally retarded; manager of special community programs for the handicapped; mental health and mental retardation work; trainers and client supervisors in sheltered workshops; rehabilitation workers.

PROGRAM REQUIREMENTS: BACCALAUREATE DEGREE PROGRAMS

Exceptional Persons (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

HPE	340	First Aid and CPR	3
PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	3
PSY	311	Introduction to Small Group Processes	3
PSY	324	Adult Development and Aging	3
SPE	101	Exceptional Persons in Society	3
SPE	201	Mentally and Physically Disabled	3
SPE	302	Assessment	3
SPE	340	Children in Need of Emotional Support	3
SPE	345	Behavior Management	3
SPE	375	Residential Facilities for the Disabled	3
SPE	377	Adult Education	3
SPE	407	Transition to Adult Life	3
SPE	440	Methods II	3
SPE	450	Internship	12
SWK	241	Introduction to Social Work	
	or		3
SWK	300	Human Behavior and the Social Environment	
	300/400	Major related electives	12
		Total semester hours	69

Special Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	301	Evaluative Technique	2
ED/PSY	305	Educational Psychology	3
ED	401	History and Philosophy of Education	3
ELE	383	Teaching Reading in the Elementary School	3
ELE	384	Teaching Mathematics in the Elementary School	3

PSY	101*	Introduction to General Psychology	3
PSY	292*	Child Psychology	3
SPE	101	Exceptional Persons in Society	3
SPE	201	Mentally and Physically Disabled	3
SPE	301	Curriculum Development Adjustment	3
SPE	302	Assessment	3
SPE	303	Observation and Participation	3
SPE	330	Cultural Diversity in Special Education	3
SPE	340	Children in Need of Emotional Support	3
SPE	345	Behavior Management	3
SPE	400	Student Teaching	12
SPE	404	Early Childhood Disabilities	3
SPE	410	Professional Seminar	3
SPE	430	Technology in Special Education	3
SPE	435	Methods I: Teaching Children in Need of Academic Support	3
SPE	440	Methods II: Children in Need of Life Skills Support	3
SPE	490	Learning Disabilities	3
	300/400	Major related electives	3
		Total semester hours	77

THEATRE

See Communication and Theatre

VIII. COURSE DESCRIPTIONS

*Courses marked with an * asterisk may satisfy General Education requirements. Be sure to consult with your advisor.*

ACCOUNTING

ACC 110 PRINCIPLES OF ACCOUNTING I 3 cr.
Introduces the accounting cycle; balance sheet and income statement preparation; accounting for cash, receivables, inventory, property, plant, and equipment; current liabilities.

ACC 111 PRINCIPLES OF ACCOUNTING II 3 cr.
A continuation of 110: long-term liabilities, owners equity of partnerships and corporations, and statement of cash flow. Introduces managerial accounting concepts, including manufacturing accounting and budgets, and financial ratio analysis.

ACC 310 INTERMEDIATE ACCOUNTING I 3 cr.
An intensive study of accounting principles and problems of fairly presenting a financial position; measurement of assets, liabilities; preparation of financial statements. Prerequisite: ACC 111.

ACC 311 INTERMEDIATE ACCOUNTING II 3 cr.
Further study of generally accepted accounting principles; corporate earnings per share, tax allocation, pensions, leases, inflation. Prerequisite: ACC 310.

ACC 314 (CIS) AUTOMATED ACCOUNTING SYSTEMS 3 cr.
An introduction to the development and implementation of an accounting information system. A real commercial system will be analyzed and then used by students to process accounting case studies. Prerequisites: ACC 315 and CIS 104 or 105.

ACC 315 MANAGERIAL ACCOUNTING 3 cr.
Examines management strategies to develop budgets and product costs and ways to control company costs and expenses. Prerequisite: ACC 111.

ACC 320 ADVANCED ACCOUNTING I 3 cr.
Examines partnerships, accounting, corporate mergers, and consolidated financial statements; non-profit accounting, foreign currency transactions, and other topics vary. Prerequisite: ACC 311 or permission of instructor.

ACC 350 COST ACCOUNTING I 3 cr.
Explores budget planning, product costing, break-even and variance analysis, cost behavior, and cost allocation. Prerequisite: ACC 111.

ACC 351 COST ACCOUNTING II 3 cr.
A continuation of 350. More cost behavior, decision models, regression analysis and linear programming applications, capital budgeting, economic order quantity, and ethical considerations are examined. Prerequisite: ACC 350 or permission of instructor.

ACC 390 INTRODUCTION TO FEDERAL TAX ACCOUNTING 3 cr.
Explores the application of the personal income tax law to the taxpayer as an individual and a business proprietor.

ACC 400 AUDITING 3 cr.
A systematic process of objectively obtaining and evaluating evidence for the purpose of rendering an opinion and communicating the results to interested users. Prerequisite: ACC 320 or permission of instructor.

ACC 475 INTERNATIONAL ACCOUNTING 3 cr.
To acquaint the student with concepts and practices that result from international commerce and multinational operations. Comparative studies in accounting policies and procedures will be investigated. Prerequisite: ACC 311 or permission of instructor.

ACC 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

ANTHROPOLOGY

***ANH 101 CULTURAL ANTHROPOLOGY 3 cr.**
Introduction to culture as a conceptional model and to the variations in behavior systems found among human societies. Cultural institutions are examined including the processes associated with their development and change.

***ANH 102 PHYSICAL ANTHROPOLOGY: HUMAN EVOLUTION 3 cr.**
An introduction to human evolution with an emphasis on fossil evidence, genetic and cultural evolution up to Homo sapiens. Theoretical and methodological issues are covered in depth. Prerequisite: Biology 101 strongly recommended.

ANH 250 ANTHROPOLOGY OF GENDER 3 cr.
An introduction to the cultural diversity of gender roles with emphasis on the roles of women, gender bias, and cultural definitions of men and women. Contemporary gender issues are studied within a variety of cultural contexts.

ANH 260 ARCHAEOLOGICAL METHODS 4 cr.
Course examines excavation techniques, description, analysis, and interpretation of archaeological sites. Students will be involved in ongoing archaeological research in the local area and will participate in both archaeological field testing and laboratory analysis. Prerequisite: ANH 101 or instructor permission.

ANH 270 NATIVE NORTH AMERICANS: CONTEMPORARY ISSUES 3 cr.
Traces the distinctive and enduring Native American contemporary cultural issues from a historical perspective.

ANH 280 ANTHROPOLOGICAL LINGUISTICS 3 cr.
This course teaches the basics of anthropological linguistics which provides pronunciation, grammar, structure, and vocabulary needed to know and understand linguistics.

ANH 301 WORLD CULTURES 3 cr.
Comparative study of selected major cultural areas of the world. Institutional patterns characterizing the cultural complexes of Europe and Southwest Asia, South Asia, Southeast Asia, North and South America and Africa south of the Sahara will be examined. Prerequisite: permission of instructor. Dual listed with 501.

ANH 305 NATIVE NORTH AMERICANS: CULTURES 3 cr.
Provides an understanding of native cultures before contact with Europeans.

ANH 308 SUB-SAHARA AFRICA 3 cr.
An in depth study of the diversity of African cultures south of the Sahara Desert. An overview of Sub-Saharan African cultures will be presented followed by detailed studies of representative cultures from each of the linguistic and cultural areas. Prerequisite: ANH 101.

ANH 350 SELECTED TOPICS SEMINAR 1-6 cr.
Review of a specialty area in anthropology or the study of a problem from an interdisciplinary position. Prerequisite: Upper division status and permission of instructor. May be taken for one through six credits.

ANH 405 NATIVE NORTH AMERICAN: WORLD VIEW AND ECOLOGY 3 cr.
An anthropological approach to ecology and Native American world view to explain cultural phenomena regarding the interrelationships of humankind and the environment.

ANH 410 ETHNOGRAPHIC FIELD METHODS 3 cr.
Examines qualitative field work methods of participation and unstructured interviews. The student is introduced to him/herself as actor in social situations and analyzes campus life (small segments). Prerequisite: Upper division status, ANH 101, SOC 101 and at least one other upper level anthropology or sociology course.

ANH 440 ANTHROPOLOGY OF BELIEF SYSTEMS 3 cr.
This course explores how societies construct meaning through belief systems. Symbolic systems will be explored cross-culturally, including indigenous religion, witchcraft, magic, shamanism, and cultural spirituality. Major emphasis will be on anthropological theories of symbolic forms. Prerequisites: ANH 101 and at least two upper level courses in anthropology or permission of instructor.

ANH 480 ANTHROPOLOGICAL THEORY 3 cr.
A seminar on the history and development of anthropological thought from social evolution through post-processual theory. The course covers both macro and mid-range theories and current trends in the anthropological perspective. Prerequisites: Upper class standing in the anthropology/sociology major.

ANH 490 FIELD STUDY 3 cr.
Supervised field work in any subdiscipline of anthropology: physical, archaeology, linguistic, or cultural anthropology. Individually arranged. Prerequisites: upper class standing in the anthropology tract of the sociology/anthropology major, or permission of the instructor.

ANH 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits.

ART EDUCATION

ARE 101 INTRODUCTION TO ART EDUCATION 1 cr.
An introduction to the teaching experience through projects, discussions,, and observations. Includes some teaching of elementary and high school students.

ARE 288 HISTORY AND PHILOSOPHY OF EDUCATION AND ART EDUCATION 3 cr.
Acquaints the student with social, historical, and philosophical developments in education and art education.

ARE 343 ARTS AND CRAFTS IN THE SPECIAL EDUCATION CURRICULUM 3 cr.
Creative work in a variety of activities with arts and crafts materials. Particular emphasis is on the needs of special education classes.

ARE 388 HISTORY PHILOSOPHY OF ART EDUCATION 3 cr.
Acquaints the student with social, historical, and philosophical developments in education and art education.

ARE 390 ART CURRICULUM AND TEACHING IN ELEMENTARY SCHOOLS 3 cr.
A pre-student teaching experience in which each student prepares lessons and teaches children of pre-school age through the fifth and sixth grades. Activities include field trips, observations, and participation in nearby public schools.

ARE 392 TEACHING ART IN THE ELEMENTARY GRADES 3 cr.
Examines the philosophy and principles of art education in the elementary school curriculum with experience in the development of self-expression through a variety of public school art materials and activities as a basis for understanding and evaluating children's art work.

ARE 393 ART CURRICULUM AND TEACHING IN SECONDARY SCHOOLS 3 cr.
Pre-student teaching situation based on classroom problems that occur in an actual teaching situation in the Mansfield junior/senior high school. Problems of an individual in the classroom provide a personalized approach to problems and their solutions. Emphasis is placed upon application, observation, and evaluation of teaching as related to the adolescent in the junior/senior high school. Prerequisite: ARE 290.

ARE 394 CURRICULUM DEVELOPMENT IN ART EDUCATION 2 cr.
Investigation of the concepts, attitudes, and values of art theory and practice as related to curriculum; a study of classroom problems and procedures in various teaching situations.

ARE 400 STUDENT TEACHING 12 cr.
(By arrangement). Provides the opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university-established centers under supervision of qualified cooperating teachers. Observations and conferences scheduled by the departmental supervisor. ARE 400 is required for students seeking certification to teach. Prerequisite: 2.5 QPA.

ARE 444 ART AND RECREATION FOR THE HANDICAPPED CHILD 6 cr.
A three-week workshop with instruction in and practical application of art and recreation for the handicapped child in connection with the Easter Seal Society of Pennsylvania. The first part is on campus for several days in a classroom situation. The second part is in an Easter Seal Society camp for the two-week session, living, working, and playing with young handicapped children 24 hours a day under the direction and supervision of both camp and university professionals.

ART HISTORY

ARH 101 INTRODUCTION TO ART 3 cr.
An approach to the dominant movements and ideas of the Western World as they evolved in visual arts from the cave art origins to the 20th Century systems.

ARH 102 SURVEY OF ART 3 cr.
An intercultural, interdisciplinary approach to dominant movements and ideas as they evolved in visual arts. Examines philosophic commonality of purpose which becomes intertwined with man's record of history.

ARH 320 ART OF AFRICA AND OCEANIA 3 cr.
The study of prehistoric and primitive art from the Paleolithic period: Africa, Asia, Australia, Europe, Mexico, the Americas, and the South Seas. Prerequisite: ARH 101, 102 or permission of instructor.

ARH 321 ANCIENT AND MEDIEVAL ART 3 cr.
Comprehensive study of architecture, sculpture, and painting from the ancient through Gothic periods; emphasis on aesthetic values and historical implications, iconographic and symbolic significance. Prerequisite: ARH 101 or 102.

ARH 322 ART OF THE RENAISSANCE 3 cr.
Comprehensive study of architecture, painting, and sculpture in Italy, Flanders, Holland, Germany, England, France, and Spain with emphasis on the general characteristics of the Renaissance. Prerequisite: ARH 101 or 102 or permission of instructor.

ARH 323 BAROQUE AND ROCOCO ART 3 cr.
A comprehensive study of painting, sculpture, and architecture from 1600 to 1750 in Italy, Flanders, Germany, Austria, Holland, Spain, France and England. Prerequisite: ARH 101, 102 or permission of instructor.

ARH 324 NATIVE ARTS OF THE AMERICAS 3 cr.
A survey of the native arts of North, Central, and South America during the pre-Columbian and historic periods. Painting, sculpture, architecture, and crafts will be examined.

ARH 326 ORIENTAL ART 3 cr.
Study of art in China, India, and Japan in the areas of architecture, painting, pottery, sculpture, and the minor arts. Trace influences central to the development and spread of important styles and the relationship of art to the classics of Oriental aesthetics.

ARH 327 HISTORY OF PRINTS 3 cr.
The history of printmaking and the significant influences of Eastern and Western cultures on the graphic processes. Prerequisite: ARH 101 or 102 or permission of instructor.

ARH 328 HISTORY OF ARCHITECTURE 3 cr.
Study of architecture, styles, and methods of construction from the earliest civilizations to the present. Analyzes the outstanding contributions in architecture of the various cultures with emphasis on further development and influences, citing important examples and their architects. Prerequisite: ARH 101 or 102 or permission of instructor.

ARH 329 HISTORY OF AFRICAN-AMERICAN ART 3 cr.
Survey of Early African art to contemporary African-American art, appraises the past and present performance of African-American artists and their contributions to American art history.

ARH 330 HISTORY OF AMERICAN ART 3 cr.
Comprehensive study of the heritage of American art from the Limners and Artisans of colonial times through the 20th century in painting, architecture, and sculpture; emphasizing aesthetic values, movements, trends, and contributions of significant artists. prerequisites: art 101, 102, or permission of instructor.

ARH 331 HISTORY OF MODERN ART 3 cr.
Comprehensive study of the development of modern art from 19th century neoclassicism through contemporary movements, emphasizing aesthetic values, historical implications, and contributions of significant artists. Prerequisites: ARH 101, 102, or permission of instructor.

ARH 401 CULTURAL ORIGINS OF ART 1 - 9 cr.
A travel-study seminar abroad visiting various countries around the world. Provides intensive study of the humanities and cultures from which various art styles emerge. Lectures will be conducted throughout the tour by the director. Prerequisite: ARH 101, 102 or permission of instructor. Dual listed with 501. May be taken for one through nine credits.

ARH 407 EMPIRES OF THE WORLD THROUGH ART 3 cr.
Explores the use of art and architecture of various empires as images of power and political statement. The Roman, Byzantine, Holy Roman, Ottoman, Russian, and British empires will be examined. Prerequisite: ARH 101, 102 or permission of instructor. Dual listed with 507.

ARH 408 ART AND MYTHOLOGY OF ANCIENT GREECE 3 cr.
Explores the relationship between art and mythology in ancient Greece from the Bronze Age through the Classical and Hellenistic periods. Prerequisite: ARH 101, 102 or permission of instructor. Dual listed with 508.

ARH 409 WOMEN IN ART 3 cr.
A study of the accomplishments and contributions of women in art and architecture from antiquity to the 20th century. Women as subjects in art will also be examined with emphasis on the cultural and artistic milieu in which they are represented. Prerequisite: ARH 101, 102 or permission of instructor. Dual listed with 509.

ARH 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

ART

ART 101 INTRODUCTION TO ART 2 cr.
A study of representative works of art through the ages for both increased aesthetic perception and deepened awareness of universal human experience.

ART 201 PAINTING 3 cr.
Introduction to the methods, techniques, and approaches of the painter. Emphasis is placed on composition, application, and involvement in creative self-expression. The understanding and use of the media for solving various problems of representation is stressed. Dual listed with 511.

ART 210 DRAWING 3 cr.
Builds those skills and attitudes necessary for the remainder of the program. Introduces the two and three dimensional aspects of drawing and develops personal power of expression. Designed to stimulate creative thinking, develop a sensitivity to the art elements, sharpen impressions and the visual memory. Dual listed with 510.

ART 231 PRINTMAKING 3 cr.
Introduction to the printmaking processes of linocut, woodcut, lithography, serigraphy, etching, intaglio, and drypoint with emphasis on their use for creative expression. Dual listed with 514.

ART 241 COLOR AND DESIGN 3 cr.
Introduction to design, types of harmony, sequence and balance while applying methods of design and representation through the use of various media. Emphasis is on creative use of color and basic elements of design stressing their function and relationships through discussion and assigned problems.

ART 251 JEWELRY 3 cr.
Study of two and three dimensional design concepts with emphasis on individual solutions in the medium of metal. Both precious and common materials will be used. Traditional techniques of jewelry making will be explored. Dual listed with 516.

ART 261 WATER BASE MEDIA 3 cr.
Explores water base media (transparent, gouache, acrylic polymer) with the intent of establishing a broad base of understanding needed to accomplish personal goals. Dual listed with 513.

ART 271 CERAMICS 3 cr.
The study of hand and wheel methods of forming. Introduces the principles of glaze formulation, kiln stacking, and firing. Dual listed with 515.

ART 281 SCULPTURE 3 cr.
Exploration of three dimensional design as related to sculpture. Basic techniques of stone and wood carving will be explored in addition to various methods of material build-ups (wood, plaster, Plexiglas, metal, etc.). Dual listed with 519.

ART 295 CRAFTS 3 cr.
Designed to prep students to be more receptive to three dimensional media and materials. Provides the opportunity to explore various media and develop an understanding of crafts. Basic design properties of wood, paper, clay, metal, and plastics are studied. Dual listed with 512.

ART 298 PUPPETRY 3 cr.
Devoted to the production and exploration of a variety of puppets, both traditional and contemporary. Concentrates on creative imagery to develop characterization with special emphasis on the utilization of puppets in free play, impromptu, stage, scripted productions, and special performances. Dual listed with ART 521.

ART 300 VISUAL STUDIES IN AESTHETIC EXPERIENCES 3 cr.
Studies the philosophic theories of art, aesthetic experience, principles and criticism in the nature and comprehension of the character of arts, the artist, and his/her relationship to life.

ART 302 ADVANCED PAINTING 1 - 12 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 201 or permission of instructor. May be taken for one through twelve credits.

ART 311 ADVANCED DRAWING 1 - 12 cr.
The direction of the course of study is determined by the student and instructor. Prerequisite:
ART 210. May be taken for one through twelve credits.

ART 332 ADVANCED PRINTMAKING 1 - 12 cr.
The direction of the course of study is determined by the student and instructor. Prerequisite:
ART 231. May be taken for one through twelve credits.

ART 342 ADVERTISING, DESIGN AND LETTERING 3 cr.
Introduction to advertising. A comprehensive survey of basic principles and practices in advertising, their relation to economy, society, and system of mass communication. Psychological and creative factors involved in advertising, design, campaign, media, and research are explored.

ART 345 FIBERS 3 cr.
A creative application of the principles and elements of design and color theory to fibers and fabrics. Develops skills in textile techniques and an understanding of the functional and aesthetic possibilities of fibers and fabrics. Techniques include: weaving, hooking, rya knotting, crochet, knitting, macrame, stitchery, tie dye, batik, block print, dye painting, spinning, quilting, basketry. Dual listed with 517.

ART 346 FIBERS WORKSHOP 3 cr.
Explores the principles of fabric construction as applied to practical uses, the functional and aesthetic uses of fibers, color, and design in textiles, and how to design specifically for textile techniques, sources for materials and equipment, including the building of simple equipment.

ART 347 WEAVING SPINNING 1 - 3 cr.
Explores spinning, weaving, and basic structure of fiber and fabric starting with basic skills and advancing to drafting and weaving your own fabric. May be taken for one through three credits.

ART 352 ADVANCED JEWELRY 1 - 12 cr.
The direction of the course of study is determined by the student and instructor. Prerequisite: ART 251. May be taken for one through 12 credits.

ART 362 ADVANCED WATER BASE MEDIA 1 - 12 cr.
The direction of the course of study is determined by the student and instructor. Prerequisite: ART 261. May be taken for one through 12 credits.

ART 365 COMPUTER ART 1 - 6 cr.
Introduction to the methods, techniques, and approaches of the computer for graphic application and provide an effective, workable knowledge of computer graphic design that can be applied to the area of creative expression and teaching. May be taken for 1 through 6 credits.

ART 372 ADVANCED CERAMICS 1 - 12 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 271. May be taken for one through 12 credits.

ART 382 ADVANCED SCULPTURE 1 - 12 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 281. May be taken for one through 12 credits.

ART 396 ADVANCED CRAFTS 1 - 12 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 295. May be taken for one through 12 credits.

ART 403 SEMINAR 1 cr.
Provides art students with the opportunity to exchange ideas, enhance critical dialectic, and to participate in activities relevant to the professional artist. The activities in this course will assist the student in developing his/her portfolio and exhibition skills.

ART 404 SPECIAL PROBLEMS IN ART 1 - 6 cr.
Designed for students interested in extending their scope or gaining depth in specific academic areas related to art and/or education. Since needs and conditions change with each student, the requirements and restrictions are determined by and arranged with the chairperson. May be taken for 1 through 6 credits.

ART 442 ADVANCED ADVERTISING, DESIGN, AND LETTERING 1 cr.
An advanced course that explores the principles and practices of advertising and their relation to society and mass communication. Emphasis will be placed on new computer technology in the field of design, research, and media. Prerequisite: ART 342.

ART 445 ADVANCED FIBERS 1 - 12 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 345. May be taken for 1 through 12 credits.

ART 465 ADVANCED COMPUTER ART 1 - 6 cr.
Introduction to the methods, techniques and approaches of the computer for graphic application. To provide an effective, workable knowledge of computer graphic design that can be applied to the area of creative expression and teaching. Prerequisite: ART 365. May be taken for 1 through 6 credits.

ART 489 INTERNSHIP 1 - 12 cr.
A practical experience in a selected field of artistic endeavor designed to meet the students needs. May be taken for 3 through 12 credits.

ART 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

ART 498 ADVANCED PUPPETRY 1 - 6 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 298, similar background, or permission of instructor. May be taken for 1 through 6 credits.

ASTRONOMY

***AST 105 THE EXPLORATION OF THE SOLAR SYSTEM 3 cr.**
A descriptive astronomy course concerning contemporary astronomical and astrophysical theories about the solar system.

***AST 106 ONE POSSIBLE UNIVERSE 3 cr.**
A descriptive astronomy course concerning contemporary astronomical and astrophysical theories about the universe.

***AST 108 OBSERVING THE AUTUMN SKY 1 cr.**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during autumn. Students also learn pertinent historical, legendary, and astronomical facts about them.

***AST 109 OBSERVING THE WINTER SKY 1 cr.**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during winter. Students also learn pertinent historical, legendary, and astronomical facts about them.

***AST 110 OBSERVING THE SPRING SKY 1 cr.**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during the spring. Students also learn pertinent historical, legendary, and astronomical facts about them.

***AST 111 OBSERVING THE SUMMER SKY 1 cr.**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during the summer. Students also learn pertinent historical, legendary, and astronomical facts about them.

AST 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

BIOLOGY

BI 100 ORIENTATION TO BIOLOGY 1 cr.
Orientation to scientific disciplines with particular emphasis on biological sciences. Features guest speakers both from within and outside the university who will address current trends and opportunities in the biological fields. Required of all biology majors. Prerequisite: Biology major.

***BI 110 ZOOLOGY 4 cr.**
An evolutionary approach to the study of the animal kingdom, with attention given to the development of organ systems throughout the several phyla of invertebrates and vertebrates. Function, correlated with structure and taxonomic features, is emphasized. Additional evidence for evolution is included through an introduction to genetics, embryology, and ecology.

BI 111 FISH CULTURE I 3 cr.
The technology of controlled husbandry of fish in flowing water. Major emphasis on solving problems relative to the intensive aquaculture. Prerequisite: BI 100 and 110 or permission of instructor.

BI 112 FISH CULTURE II 3 cr.
The technology of controlled husbandry of fish in standing water. Major emphasis on the science of extensive aquaculture. Prerequisite: BI 110.

***BI 130 BOTANY 4 cr.**
Study of plant structures and function, development, growth, diversity, and evolution. Prerequisite: BIO 100 or permission of instructor.

BI 251 TROPICAL MARINE BIOLOGY 1 cr.
Tropical marine communities are among the richest and biologically most diverse in the oceanic environment. This course provides insight into the biology/ecology of the mangrove, inter-tidal, and coral reef ecosystems. A week-long visit to the tropics which includes snorkeling and diving provides students with firsthand experience.

BI 310 PHYSIOLOGY 4 cr.
A systematic study of the life processes and functions of the animal body with particular emphasis on the mammalian vertebrate. Prerequisite: BI 110.

BI 312 VERTEBRATE ANATOMY 3 cr.
A history of vertebrates and comparative systems through the major vertebrate groups correlating their historical development. Prerequisite: BI 110.

BI 313 ENTOMOLOGY 3 cr.
Survey of the classification, structure, physiology, biology and economic importance of insects. An introduction to the study of insects as a major segment of the biological community. Laboratory exercises on anatomy and practice in the techniques of insect identification. Prerequisite: BI 110.

BI 314 ICHTHYOLOGY 3 cr.
A laboratory and field study of the fishes inhabiting the lakes and rivers of this area constitute the major portion of this course. Collection, measurement and chemical data as related to fish populations, management, and meristic characters will be collected and analyzed. Prerequisite: BI 110.

BI 315 FISH PATHOLOGY 3 cr.
A consideration of the diagnosis and treatment of diseases commonly found in hatchery fish. Diseases of bacterial, viral, parasitic, and environmental origin are studied together with recommended treatment for each. Prerequisite: BI 110.

BI 316 INVERTEBRATE ZOOLOGY 3 cr.
An integral evolutionary approach to the anatomy, physiology, and ecology of protozoan Protista and Animalia phyla: Porifera through nonvertebrate Chordata. Prerequisite: BI 110.

BI 317 PARASITOLOGY 3 cr.
A systematic study of host-parasite relationships. Emphasis involves life-cycles and comparative characteristics of parasitic protozoans, helminths and arthropods. Prerequisite: BI 110.

BI 330 PLANT PHYSIOLOGY 3 cr.
Designed to develop an understanding of the chemical and physical processes occurring in plants including respiration, photosynthesis, hormonal activity, osmosis, transpiration, mineral absorption and translocation. The laboratory work will involve analysis of these functions. Prerequisite: BI 130.

BI 331 LOCAL FLORA 3 cr.
Taxonomic and ecological study of local flowering and non-flowering plants. Prerequisite: BI 130.

BI 350 ECOLOGY 4 cr.
A study of the fundamental ecological principles of plants and animals in their environment.

BI 351 LIMNOLOGY 3 cr.
Deals with basic concepts in the study of inland waters. Focus on biological, chemical, physical, and geological factors which determine biological productivity in natural waters. Prerequisite: BI 350.

BI 352 MANAGEMENT OF SMALL IMPOUNDMENTS 3 cr.
Theory, practice, and demonstration of managing farm ponds for optimal sport fishing. Prerequisite: BI 350. Dual listed with 561.

BI 353 MANAGEMENT OF STREAMS AND LARGE IMPOUNDMENTS 3 cr.
Theory, practice, and demonstration of managing streams, rivers, natural lakes, and large impoundments for optimal sport fishing. Prerequisite: BI 350. Dual listed with 562.

BI 354 MARINE BIOLOGY 3 cr.
Studies basic to the biology and ecology of marine organisms. Practical applications such as biological/ecological sampling techniques and species identification are covered in the laboratory and on a coastal field trip. Prerequisite: BI 350.

BI 357 EPIDEMIOLOGY 3 cr.
The study of distribution and determinants of disease and injury in populations. Provides an introduction into community health and medical problems and services. Problem solving, case-control studies, and statistical analysis are emphasized. Prerequisite: BI 350.

BI 370 CELL BIOLOGY 4 cr.
A study of the cellular level of life with emphasis on cellular structures and their relationship to movement, function, and energy transformation. Cellular genetics and the cellular approach to medicine are also discussed.

BI 371 MICROBIOLOGY 4 cr.
An introductory course with emphasis on the basic principles and concepts of microbiology concerning anatomy, classification, physiology, medical and practical uses of micro-organisms. The laboratory helps students develop aseptic technique. Prerequisite: BI 370.

BI 372 GENETICS 3 cr.
A study of basic principles and concepts of classical and molecular genetics. Emphasis will be on linkage analysis, structural, biochemical and molecular genetics. Prerequisite: BI 370.

BI 373 GENETIC RESEARCH 2 cr.
Study and application of cell and molecular genetics techniques to prokaryotes and eukaryotes. Students will become acquainted with the methodologies of modern genetic research and biotechnology. Prerequisite: BI 370 and 372 or permission of instructor.

BI 374 IMMUNOLOGY 3 cr.
The study of antigens and antibodies encompassing the fields of the immune response, autoimmunity, allergic reactions, tumor immunology, tissue graft and transplant biology. Prerequisite: BI 370.

BI 375 DEVELOPMENTAL BIOLOGY 3 cr.
A comparative survey of the development of representative animals from several phyla with emphasis on gamete formation, fertilization, embryonic development, organogenesis, growth, and biological aging. The laboratory combines examples of live plant and animal development with prepared slides of frog and chick embryology. Prerequisite: BI 370.

BI 376 ANIMAL HISTOLOGY AND BASIC MICRO TECHNIQUES 3 cr.
A systematic study of the microanatomy of the vertebrate body starting with cells and tissues and working through the complete organ systems. Prerequisite: BI 370.

BI 377 FOOD MICROBIOLOGY 4 cr.
Basic microbiology of bacteria, yeasts, and molds with emphasis as to preparation and preservation of foods, water and waste control, disease mechanisms, and special food products. This is a required course for transcript evaluation prior to taking the registry exam by the American Dietetic Association. Prerequisite: BI 370.

BI 378 TISSUE CULTURE 2 cr.
The study of eukaryotic cell culture and molecular techniques. Students will become competent in tissue culture methods used in research laboratories. One hour lecture, three hours lab per week. Prerequisites: BI 370 and BI 371 or permission of instructor.

BI 390 BIOSTATISTICS AND EXPERIMENTAL DESIGN 3 cr.
Presents to science students a description of the processes of experimental design, selection of appropriate statistical tests to analyze experimental data, and performance of these tests using current software.

BI 391 EVOLUTION 3 cr.
A study of the basic theory, mechanism, and pathways of natural selection. Also studies the development of evolutionary thought from antiquity to the current gradualist and punctuated equilibrium models. Both genetic and paleontological data are analyzed in examining micro and macro evolutionary scenarios.

BI 392 FISH MANAGEMENT 3 cr.
A consideration of how fish populations become structured and the effects of various rates of exploitation upon these structures. A practical explanation of relative efficiencies of different fish management practices on maintaining fishery yields desirable to anglers is emphasized.

BI 450 INTERNSHIP 1 - 12 cr.
The biology internship gives students the opportunity to apply knowledge and skills in the biological sciences while working with a public or private agency involved in aspects of applied biology. The practical experience thus acquired both supplements and reinforces the more academic aspects of biology stressed in the classroom. May be taken for 1 through 12 credits. *No more than 10 credits count toward the major.*

BI 470 MOLECULAR BIOLOGY 3 cr.
An examination of the principles and techniques underlying the chemical and physical aspects of living systems. A study of the structure and activities of biological molecules which, properly integrated, constitute all forms of life. The laboratories will demonstrate techniques of the activities, separation and analysis of these molecule forms.
Prerequisite: BI 370.

BI 471 CELL PHYSIOLOGY 3 cr.
A study of a specialized field of cell biology which emphasizes phenomena dealing with the nature of the cell membrane and its transport activities, the reaction of cells to changes in environment, the mechanism of cell excitability and contraction, and other manifestations of cellular functioning such as nutrition, growth and secretion.
Prerequisite: BI 370.

BI 491 AQUACULTURE RESEARCH 1 - 3 cr.
A special research project is initiated by the student to increase his/her expertise in investigating a scientific problem and reporting the results in the form of a scientific paper. The research is conducted under the guidance of a faculty member who has special expertise in the subject area. May be taken for one through three credits.

BI 496 SEMINAR 1 cr.
Study and research projects involving investigation of recent literature in the field of biology; preparation of seminar papers on assigned problems.

BI 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

BI 498 (GEG 465) SEMINAR IN ENVIRONMENTAL SCIENCE 1 cr.
An upper level seminar that integrates and applies concepts and skills taught in the basic courses of the environmental science emphasis.

***BSC 101 GENERAL BIOLOGY 4 cr.**
An introduction to biological processes; study and discussion of these processes together with ecological aspects of life. The laboratory stresses demonstration and analysis of biological processes.

***BSC 102 CONTEMPORARY BIOLOGICAL PROBLEMS 3 cr.**
There is no fixed syllabus. Topics are current and usually changed for each semester. Guest lecturers will be given time to present their specialties.

***BSC 103 ENVIRONMENTAL BIOLOGY 3 cr.**
General education course for non-science majors. It provides students with biological explanations of environmental issues such as pollution, acid rain, global warming, environmental toxicology, forestry, wildlife conservation, etc.

BSC 119 HUMAN ANATOMY 4 cr.
A structural approach to the human organ systems.

BSC 120 HUMAN PHYSIOLOGY 3 cr.
A functional approach to the human organ systems.

BSC 121 HUMAN ANATOMY AND PHYSIOLOGY I 4 cr.
This course presents an integrated approach to the study of the anatomy and physiology of the various organ systems of the human body.

BSC 122 HUMAN ANATOMY AND PHYSIOLOGY II 4 cr.
A continuation of Bio 121. This completes an integrated approach to the study of the anatomy and physiology of the various organ systems of the human body.

BSC 250 FIELD METHODS IN ENVIRONMENTAL BIOLOGY 3 cr.
A study of the field methods employed in measuring the biological qualities of the environment. Techniques applicable to surveys of the major aquatic and terrestrial habitats are taught through field experience. Analysis of data obtained and consideration of its significance is an integral part of the course. Prerequisite: BIO 101 or equivalent. BIO 310 recommended.

BSC 271 MICROBIOLOGY FOR HEALTH SCIENCES 4 cr.
An introductory course for health science students emphasizing the basic principles and concepts of microbial anatomy, classification, physiology, and their practical applications as well as developing aseptic techniques. Prerequisites: None. Offered every spring.

BUSINESS

BUS 130 INTRODUCTION TO BUSINESS AND MANAGEMENT 3 cr.
Studies an overview of the broad concept of business functions. Provides a foundation for understanding the relationship between essential activities of business. Helps students to determine and pursue their areas of interest and aptitude.

BUS 150 WOMEN IN MANAGEMENT 3 cr.
This course examines management structure and practice in relation to women; their goals, expectations, attitudes, and skills. The difficulties women encounter in being successful in management will be analyzed and strategies which both men and women can use in changing the situation will be discussed. The course will emphasize case studies.

BUS 160 SMALL BUSINESS MANAGEMENT 3 cr.
Emphasizes aspects of management unique to small firms. Examines the characteristics of entrepreneurs and the process of strategic planning for small firms.

BUS 230 MANAGEMENT PRINCIPLES 3 cr.
Acquaints the student with the functions and internal structure of modern business. Students will learn the techniques and systems employed by management to run an efficient organization.

BUS 301 INTRODUCTION TO FINANCE 3 cr.
Examines basic concepts and techniques for identifying and solving elementary financial management problems. Topics include compound interest and time value of money, financial statement analysis, working capital management, cash flow analysis and capital budgeting, short-term financing, and stockholder equity valuation. Prerequisite: ECO 101 and MA 125.

BUS 302 MANAGERIAL DECISION MAKING 3 cr.
Examines decision making as a multi-dimensional process. A variety of models and frameworks, quantitative and qualitative, are offered as a rational approach to managerial decisions. Prerequisite: BUS 230.

BUS 321 ENVIRONMENT AND MANAGEMENT OF INTERNATIONAL BUSINESS 3 cr.
Provides a managerial view point of the dynamics of international business. Topics covered include history and scope of international business, international trade theory, foreign direct investment, governmental influences on trade and regional economic integration, and sociocultural and legal factors on MNC's. Prerequisite: BUS 230, ECO 101 and 102.

BUS 330 MARKETING 3 cr.
Introduces the nature of marketing activities, consumer behavior and motivation. Focuses on an individual firm managing its marketing efforts in relation to market forces and marketing opportunities. Emphasis on development of product, price, promotion, and distribution policies in order to achieve planned marketing programs. Prerequisite: ECO 101 or 102, or permission of instructor.

BUS 332 PROMOTION IN MARKETING 3 cr.
Examines the promotion functions of the marketing program. It also helps students to analyze marketing communication opportunities, planning, and execution of the marketing program. Prerequisite: BUS 130 and 330.

BUS 333 (ECO) INTERNATIONAL FINANCIAL MANAGEMENT AND ECONOMICS 3 cr.
Designed to study the mechanism of international business finance. Topics covered include the study of foreign exchange market, Eurodollar market, inflow and outflow of capital to and from the U.S., the effect of U.S. interest rate on imports and exports, and foreign exchange risk. Prerequisite: ACC 111, ECO 101, 102 and MA 125.

BUS 334 MARKETING RESEARCH 3 cr.
Provides an in-depth examination of market research tools and techniques. Emphasis is on effectiveness of the total efforts in an atmosphere of tight budgetary and fiscal control. Also reviews successful efforts and stresses on practical application of theory. Prerequisite: BUS 130, 330, MA 125 or permission of instructor.

BUS 345 (PSC/PA) GOVERNMENT AND BUSINESS IN SOCIETY 3 cr.
Examines the idea of "social responsibility" of business. Examines the political and economic framework that affects legislation and business strategy. Considers the value judgments which influence policy makers.

BUS 349 QUANTITATIVE BUSINESS ANALYSIS 3 cr.
Provides a systematic application of modern quantitative tools and techniques in practical situations. Topics include hypothesis testing, probability distribution, simple and multiple regression, and time series analysis. Prerequisite: MA 125.

BUS 350 PRODUCTION MANAGEMENT 3 cr.
A study and use of analytical tools for demand forecasting, use of system design and measurement, inventory control and resource allocation. Specialized and analytical techniques are used to deal with practical situations. Prerequisite: MA 125 and 170.

BUS 370 SALESMANSHIP 3 cr.
Provides students with entry level skills for a position in sales. Recognizes the necessary skills and characteristics that contribute toward greater sales effectiveness. Stresses the importance of establishing realistic goals and objectives; to manage your time and selling activities more effectively. The primary objective, however, is to gain an understanding of personal selling as a major function within the marketing and promotional mix of a firm. Prerequisite: BUS 130, 330 or permission of instructor.

BUS 402 CORPORATE FINANCE 3 cr.
Focus on how individuals, financial institutions, and corporations make investment and financing decisions over multiple time period in an uncertain environment. Topics include theory of choice, efficient capital markets, CAPM and APT, capital budgeting under uncertainty, capital structure theories and policies, dividend policy, mergers and restructuring, and elements of international financial management. Prerequisite: BUS 301, CIS 103, ECO 102, MA 125 and 170 OR MA 231.

BUS 403 BUSINESS AND AMERICAN FOREIGN POLICY 3 cr.
Provides a systematic look at the U. S. Foreign policy on international business. Topics covered include economic, social and political objectives of foreign policy, the impact of foreign policy on East-West trade relations, emerging market economies in eastern Europe and U.S. foreign policy, NAFTA, GATT, GSP and U.S. multinational corporations. Prerequisite: ECO 101, 102 and BUS 230.

BUS 404 INTERNATIONAL RELATIONS IN ASIA AND LATIN AMERICA 3 cr.
Examines the theories of international relations in the emerging industrial countries of Asia and Latin America. Will analyze U.S. and European competition in the area. Regional conflicts between nations in these regions and means of resolving conflicts in the light of changing world politics will be discussed. Prerequisite: ECO 101, 102 and PSC 210.

BUS 410 BUSINESS LAW I 3 cr.
Introduces the legal environment of business and its role in modern society. Topics include the formation of contracts, sales, negotiable instruments, bank deposits and collections, secured transactions, and business organization. Emphasizes social and ethical considerations, terminology, fundamental legal principles, and analysis.

BUS 411 BUSINESS LAW II 3 cr.
Continued study of legal principles including agency, property, Federal Securities law, and bankruptcy. Emphasis is placed on the case law approach and problem solving. Prerequisite: BUS 410.

BUS 415 MARKETING MANAGEMENT 3 cr.
An in-depth examination of contemporary micro and macro marketing systems. Examines functional marketing decisions through the application of behavioral concepts, quantitative tools, and systems theory. Also presents advanced marketing techniques used by marketing organizations. Looks at individual behavior in order to evaluate the buying behavior of consumers with the objective of tailoring marketing strategies to meet consumers' needs and wants. Prerequisite: BUS 130, 330, and junior standing or permission of instructor.

BUS 420 TOPICAL SEMINAR/MARKETING FOR NON-PROFIT ORGANIZATIONS 3 cr.
Marketing for Non-Profit Organizations.

BUS 421 TOPICAL SEMINAR/MARKETING CHANNELS OF DISTRIBUTION 3 cr.
Marketing Channels.

BUS 422 TOPICAL SEMINAR/INTERNATIONAL MARKETING 3 cr.
Examines the application of marketing concepts and strategies in the global markets. Emphasis is on adjusting and adapting a marketing program to foreign markets. Provides an understanding of differences between markets in different countries, its politics, legal, culture, trade practices, geography, and commercial policies. Studies export and import procedures and practices. Prerequisite: BUS 130 and 330 or permission of instructor.

BUS 423 TOPICAL SEMINAR/INDUSTRIAL MARKETING 3 cr.
Industrial Marketing.

BUS 424 TOPICAL SEMINAR/SALES FORCE MANAGEMENT 3 cr.
Sales Force Management.

BUS 425 TOPICAL SEMINAR/CURRENT MARKETING PROBLEMS 3 cr.
Current Marketing Problems.

BUS 435 INVESTMENT THEORY 3 cr.
Introduction to financial policy with special emphasis on the practical application of risk-return theory. Investment decisions by individuals and firms, in stocks and bonds and other securities, made on the basis of incomplete information in an uncertain environment is covered. Prerequisite: BUS 402, MA 125, 129, 170 or permission of instructor.

BUS 441 FINANCIAL STATEMENT ANALYSIS 3 cr.
Analyzes financial statements issued by public held organizations. Emphasis is on the use of financial statements by creditors, investors, and those who are external to the enterprises. Topics include cash flow analysis, standards of financial analysis, and off-balance sheet financing. Prerequisite: ACC 111, BUS 301 and MA 125.

BUS 450 ORGANIZATIONAL INTERNSHIP 1 - 15 cr.
Supervised and evaluated participation in the regular activities of a business, government, agency, or appropriate organization. In consultation with the supervising faculty member, the student is expected to prepare a comprehensive final report relating to the work accomplished during the field experience. May be taken for 1 through 15 credits. *No more than 6 credits count toward the major.*

BUS 451 BEHAVIORAL APPROACH TO MANAGEMENT 3 cr.
An examination of theories, concepts, and research findings emerging from the various disciplines which study individual and group behavior within organizational systems. Prerequisite: Junior or Senior standing.

BUS 490 BUSINESS POLICY 3 cr.
Studies business problems and the formulation of policies to meet these problems from a general management viewpoint. Integrates knowledge from other courses to develop skills in policy formulation. Emphasizes long-range goals and administrative action. Case studies and simulation used. Prerequisite: Senior standing.

BUS 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

CANADIAN STUDIES

***CDN 101 INTRODUCTION TO CANADA 3 cr.**
An interdisciplinary course. Provides a comprehensive introduction to Canada stressing the basics of geography, history, economics, politics, and culture before taking up various contemporary issues, among them: constitutional reform, environmental issues, and the sovereignty of Canada's Native People

CDN 450 INTERNSHIP 1 - 6 cr.
Supervised participation in a business or government agency in Ontario or Quebec, or in a U.S. business or government agency with Canadian interests. Prerequisite: CDN 101 and six credits in Canadian Studies. May be taken for one through six credits.

CDN 490 SELECTED TOPICS IN CANADIAN STUDIES 3 cr.
An in-depth study of an issue or problem in Canadian culture, politics or business. Prerequisite: CDN 101 or permission of instructor.

CHEMISTRY

***CHM 101 INTRODUCTORY CHEMISTRY 4 cr.**
A treatment of fundamental principles for non-science majors. Does not meet degree requirements for chemistry or biology majors.

***CHM 102 ORGANIC AND BIOCHEMISTRY 4 cr.**
Deals with the principles of organic and biochemistry which are important and useful to non-science majors. Does not meet degree requirements for chemistry or biology majors. Prerequisite: CHM 101.

***CHM 103 CHEMISTRY AND THE ENVIRONMENT 4 cr.**
Examines the theory and practice of chemistry and related topics. Topics treated will be integrated and historically developed.

***CHM 104 FORENSIC SCIENCE 3 cr.**
Forensic science is the application of science to law. This course will study the collection and identification of materials used as evidence. This will include an understanding of their physical and chemical nature and origins at the crime scene. Further, the student will utilize the collected evidence to suggest scenarios for crime scenes.

CHM 106 CHEMISTRY FOR THE ALLIED HEALTH SCIENCES 4 cr.
A one-semester survey course for non-science majors. General organic, biochemistry, and clinical chemistry are emphasized for students in health support programs.

***CHM 107 MACRO PHYSICAL SCIENCE 3 cr.**
An introduction to motion and energy, astronomy, thermodynamics, and sound. Students will construct laboratory apparatus from readily available sources to make measurements. This general education course is particularly suitable for elementary education majors. Offered in Fall semester.

***CHM 108 MICRO PHYSICAL SCIENCE 3 cr.**
An introduction to the atom, chemistry, electricity and magnetism, and light. Students will construct laboratory apparatus from readily available sources to make physical measurements. This general education course is particularly suitable for elementary education majors. Offered in Spring semester.

***CHM 110 SURVEY OF CHEMISTRY, INTRODUCTORY, ORGANIC, AND BIOLOGICAL 4 cr.**
A survey course for non-science majors. General, Organic, and Biological Chemistry are emphasized. DOES NOT meet degree requirements for chemistry and biology majors.

***CHM 111 GENERAL CHEMISTRY I 4 cr.**
For science majors. A study of the fundamental principles of chemistry from the standpoint of stoichiometry, gases, states of matter, solutions and equilibrium theory. Laboratory sessions stress the chemical principles discussed in the lecture.

***CHM 112 GENERAL CHEMISTRY II 4 cr.**
A continuation of 111: kinetics, thermodynamics, oxidation-reduction, atomic and molecular structure, bonding, and periodic relationships are studied. The laboratory work is an introduction to qualitative analysis and includes experiments designed to exemplify chemical principles. Prerequisite: CHM 111.

CHM 201 INTRODUCTION TO BIOCHEMISTRY 4 cr.
A one-semester course in elementary biochemistry for non-science majors having minimum preparation in organic chemistry. Prerequisite: CHM 102.

CHM 301 ORGANIC CHEMISTRY I 4 cr.
Fundamentals of organic chemistry are presented. Modern theory, reaction mechanisms and stereochemistry are included along with nomenclature, preparation, reactions and properties of organic compounds. The laboratory stresses syntheses, chemical and physical properties and an introduction to instrumental techniques. The laboratory period includes one hour of lecture on theory and techniques of laboratory operations. Prerequisite: CHM 112.

CHM 302 ORGANIC CHEMISTRY II 4 cr.
A continuation of 301. The laboratory period includes one hour of lecture on theory and techniques of laboratory operations. Prerequisite: CHM 301.

CHM 311 QUANTITATIVE ANALYSIS 4 cr.
An introductory course in analytical chemistry emphasizing classical titrimetric and gravimetric methods and related theories. Prerequisite: CHM 112.

CHM 321 PHYSICAL CHEMISTRY I 4 cr.
An introduction to the methods and topics of physical chemistry. Topics include introduction to thermodynamics, equilibria, kinetics, atomic structure, and molecular spectroscopy. Prerequisite: CHM 112, 302, MA 231, PHY 188 and 211.

CHM 322 PHYSICAL CHEMISTRY II 4 cr.
A continuation of 321. Advanced study of the methods and topics covered in physical chemistry I. MA 233 is required. Prerequisite: CHM 321 and MA 232.

CHM 332 INSTRUMENTAL ANALYSIS 4 cr.
Deals with the principles and applications of instrumental methods in chemical and structural analysis. Studies include electroanalytical, spectrophotometric, and chromatographic techniques. Prerequisite: CHM 311.

CHM 341 BIOCHEMISTRY 4 cr.
A study of carbohydrates, lipids, proteins, enzymes, nucleic acids, vitamins, and hormones in terms of structure, function, and synthesis in living systems. The laboratory includes the isolation, identification, and chemical behavior of biochemically important molecules. Prerequisite: CHM 302 or permission of instructor.

CHM 352 RADIOCHEMISTRY 3 cr.
The study of radioisotope methodology. A laboratory oriented course familiarizing the student with radiation detection and applications in natural science problems. Prerequisite: junior or senior standing or permission of instructor.

CHM 410 SEMINAR 1 cr.
Deals with reports emphasizing chemical literature searches and/or current research. Prerequisite: upper division chemistry major.

CHM 420 QUALITATIVE ORGANIC CHEMISTRY 3 cr.
The identification of organic compounds by various classical and instrumental techniques. Two hours lecture and four hours lab per week. Prerequisite: CHM 302.

CHM 421 ADVANCED ORGANIC CHEMISTRY 3 cr.
An advanced lecture course designed to deepen and expand knowledge in the field. Topics such as reactions, mechanisms, reactive intermediates, photochemistry, kinetics, stereochemistry, natural products, and spectroscopy may be stressed. Prerequisite: CHM 302 and 321.

CHM 431 ADVANCED INORGANIC CHEMISTRY 4 cr.
A presentation of atomic structure and periodic properties. In addition to other topics; valence bond, molecular orbital, crystal field and ligand field theories are treated. Laboratory sessions include one hour of lecture on theory and techniques in the preparation of representative compounds. Prerequisite: CHM 112 and 321.

CHM 432 STRUCTURAL CHEMISTRY 3 cr.
The symmetry and structural properties of molecular systems are utilized to determine their energy levels. The electronic and vibrational spectroscopic properties of these systems will be predicted also utilizing symmetry properties. These spectra-structure correlations will be made on organic and inorganic systems. Prerequisite: CHM 302 and 321.

CHM 490 PROBLEMS IN CHEMISTRY 1 - 3 cr.
Involves the student in study projects under the direct supervision of an instructor. Library and laboratory research in selected problems. Prerequisite: Permission of instructor. May be taken for one through three credits.

CHM 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

COMPUTER AND INFORMATION SCIENCE

CIS 101 COMPUTERS IN SOCIETY 3 cr.
Examines the impact of computers on modern society and how they are programmed and used. A variety of computer applications from the social sciences, humanities, natural sciences, and professions will be studied.

CIS 102 BASIC PROGRAMMING 3 cr.
Introduces problem solving through the use of the programming language, BASIC. Enables students to write programs which they can use for handling data or for instructional programs.

CIS 103 INTRODUCTION TO MICROCOMPUTERS 3 cr.
Introduces the Disk Operating System for microcomputers and the use of word processing, spreadsheet, and data base management software.

CIS 104 COMPUTER SCIENCE I 3 cr.
Introduces a high-level programming language as a means of studying problem solving, algorithms, and program structure. Includes data representation, repetition, selection, modular programming, debugging, and verification of programs.

CIS 105 BUSINESS PROGRAMMING CONCEPTS I 3 cr.
An introduction to analyzing and designing solutions to business-related problems using a business programming language. Prerequisite: CIS 104.

CIS 203 SOFTWARE FOR BUSINESS APPLICATIONS 3 cr.
Advanced applications of spreadsheets, data base management systems, and graphics. Prerequisite: CIS 103

CIS 204 COMPUTER SCIENCE II 3 cr.
Emphasizes algorithms, structured programming and program analysis and design. Topics include files, records, recursion, string manipulation, graphics, and dynamic data structures. Prerequisite: CIS 104

CIS 205 BUSINESS PROGRAMMING CONCEPTS II 3 cr.
A second course in business programming stressing file processing and advanced programming techniques. Prerequisite: CIS 105

CIS 300 PROGRAMMING LANGUAGES 3 cr.
Comparative study of current programming languages. Examines the structure of languages and their use in problem solving. Prerequisite: CIS 204 and 330.

CIS 301 DATA STRUCTURES 3 cr.
Topics covered are data types, arrays, records, stacks, queues, linked lists, and trees. Other more advanced topics may include: file structures, recursion, heuristics, and hashing. Prerequisite: CIS 204.

CIS 303 COMPUTER NETWORKS 3 cr.
Introduction to the concepts of telecommunications, including transmission of voice, data, and images. Network principles will be introduced along with networking protocols. Local area networks and Internet will be the focus of the course. TCP/IP principles will be taught. Prerequisite: CIS 103.

CIS 308 OPERATIONS RESEARCH 3 cr.
The development and use of the techniques of operations research. Topics include linear programming, queuing theory, probabilistic inventory models and simulation. Prerequisite: CIS 203 or 204; MA 125 or 314; MA 129, 260 or 280; MA 170 or 231.

CIS 310 SYSTEMS ANALYSIS 3 cr.
An introduction to the concepts of systems analysis and design. Problem definition; data gathering, information analysis, presentation techniques, implementation planning, system controls, documentation. Prerequisite: BUS 130, and CIS 103 or 105.

CIS 314 (ACC) AUTOMATED ACCOUNTING SYSTEMS 3 cr.
Introduction to the development and implementation of an accounting information system. Prerequisite: ACC 315 and CIS 203 or permission of instructor.

CIS 320 COMPUTER ARCHITECTURE 3 cr.
Classification of computers. Defining hardware and software interfaces within a computer system. Special purpose architectures. Prerequisite: CIS 330

CIS 325 OPERATING SYSTEMS 3 cr.
Functions and characteristics of an operating system: concurrent processes, system nucleus, memory management, input and output, filing system, resource allocation and scheduling, system protection and reliability, and job control. Prerequisite: CIS 301 and 330.

CIS 330 COMPUTER ORGANIZATION 3 cr.
Overview of computer hardware, computer structure, machine representation of information, instruction codes, addressing, concepts of digital logic, microprogramming and assembly language programming. Prerequisite: CIS 104.

CIS 335 ASSEMBLY LANGUAGE PROGRAMMING 3 cr.
Explores assembly language programming including macro and subroutines. Emphasis will be on application and systems programming including machine organization for a general purpose computer. Prerequisite: CIS 204 and 330.

CIS 340 DATABASE SYSTEMS 3 cr.
First course in the theory and use of database management systems. Provides experience in the creation of an actual database system and the manipulation of the data in it. Prerequisite: CIS 205 and 301.

CIS 361 ANALYTICAL METHODS OF INFORMATION SCIENCE 3 cr.
The study of key mathematical developments in computer science. Topics will include: sets, functions, relations, graphs, and digraphs. Other computer-specific topics may include: recursion, finite state machines, formal language theory, list processing support for management and decision functions. Prerequisite: CIS 204 and 330.

CIS 401 MANAGEMENT INFORMATION SYSTEMS 3 cr.
Advanced study of information processing systems which provide transactional processing for an organization and information and processing support for management and decision functions. Prerequisite: CIS 310.

CIS 420 SPECIAL PROBLEMS IN COMPUTER APPLICATIONS 1 - 3 cr.
Study of a specialized topic. Possible topics include Computer Aided Design, Data Base Systems, Telecommunications, Advanced Business Programming.

CIS 430 PROGRAM TRANSLATION 3 cr.
The theoretical aspects of program translation: Compilers, assemblers, and interpreters: Prerequisite: CIS 301 and 330.

CIS 440 ARTIFICIAL INTELLIGENCE 3 cr.
The application of computers to solve problems and to understand the principles of human intelligence including search, reasoning, and problem reduction. Applications to games, expert systems, natural language, learning, robotics, and computer vision. Prerequisite: CIS 204.

CIS 441 SWITCHING THEORY AND LOGIC DESIGN 3 cr.
An introduction to electronic circuits used in digital systems including computers, instruments, communications systems, and control systems. Topics include Boolean algebra, switching theory, logic design, and major digital circuit lines. Prerequisite: CIS 204 and 330.

CIS 450 ORGANIZATIONAL INTERNSHIP 1 - 12 cr.
Supervised and evaluated participation in the regular activities of a business, government, agency, or appropriate organization. In consultation with the supervising faculty member, the student is expected to prepare a comprehensive final report relating to the work accomplished during the field experience. May be taken for 1 through 12 credits. *No more than 6 credits count toward the major.*

CIS 490 COMPUTER COMMUNICATIONS 3 cr.
First course in data and computer communications. Communication principles, computer requirements, networking, standards, and future trends and issues will be examined. Prerequisite: CIS 330.

CIS 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

CRIMINAL JUSTICE ADMINISTRATION

CJA 100 INTRODUCTION TO THE ADMINISTRATION OF CRIMINAL JUSTICE 3 cr.
An introduction to the field of criminal justice, its major components, roles and functions. Emphasis is placed upon concepts of law and the historical descriptive analysis of the police, courts, and corrections.

CJA 201 INTRODUCTION TO CORRECTIONS ADMINISTRATION 3 cr.
Origin and history of incarceration practices and procedures; associated organizational, criminological and phenological concepts; categories of inmates and laws affecting classification; special custody problems and treatment programs, staff organization; professional, administrative and custodial personnel training, recruitment and promotions; interagency relationships and cooperation; release programs, furloughs, work-release, and final discharge.

CJA 202 INTRODUCTION TO LAW ENFORCEMENT 3 cr.
Introduction to law enforcement problems and practices; its legal, political, and historical framework. An analysis of police organizations and their relationship with other criminal justice and social agencies.

CJA 240 ORGANIZED CRIME IN AMERICA 3 cr.
An investigation into the historical background and development of organized crime as well as the structure and operations of criminal syndicates. Specific types of organized crime will also be explored with a final analysis of the legal responses to this social problem.

CJA 251 POLICE-COMMUNITY RELATIONS 3 cr.
Basic definitions; rule of law; individual and societal aspects of police-community relations; police and minority groups; social change and law enforcement; principles of programming in police-community relations; police discretion; police role, police problems.

CJA 252 INVESTIGATION AND INTERROGATION 3 cr.
An introduction to the fundamentals of criminal investigation, rules of evidence, sources of information, observations, descriptions, and identifications, including collection, preservation, and processing of physical evidence, records, reports, statements, case preparation, surveillance and undercover techniques, modus operandi information.

CJA 256 PROBATION, PAROLE AND COMMUNITY CORRECTIONS 3 cr.
Examination of community treatment in the correctional process; contemporary usage of presentence investigation; selection, supervision, release of probationers and parolees; diversion, work release, furlough, halfway houses, and jails.

CJA 257 CORRECTIONAL INSTITUTIONS AND SERVICES 3 cr.
Intensive analysis of extramural programs for juvenile and adult offenders; professional functions in the total correctional process.

CJA 276 CRIMINOLOGY: A MULTI DISCIPLINARY APPROACH 3 cr.
Acquaint students with the nature and forms of crime. Major areas of concern are the functions of law, the scientific study of crime, criminological topologies, classical and positive definitions of crime, comparative criminology, and the problem of punishment.

CJA 301 INDUSTRIAL SECURITY 3 cr.
Examines basic industrial security concepts, principles, and methodologies. Provides knowledge of procedures and programs currently applied in industrial security management.

CJA 324 ADMINISTRATION OF JUSTICE 3 cr.
An examination of the role and function of the judiciary in the criminal justice decision-making process. It includes a survey of America's court system and an in-depth analysis of its major components. Emphasis will also be placed on important interactions within the judicial system and its major interrelationships with other criminal justice agencies.

CJA 326 COURT MANAGEMENT 3 cr.
Examines the major problem areas of court administration; judges as administrators; budgeting, calendars, case flow management; jury selection, juror utilization; records management, legal forms, forms design; personnel practices and administration. This course is problem solving oriented. Field trips, investigation, and guest lectures will supplement the materials presented in class.

CJA 336 CRIMINALISTICS 3 cr.
Examines the phase of the criminal investigation process concerned with physical evidence. Major emphasis will be placed upon legal and technical consideration in the recognition, collection, and preservation of various categories of physical evidence and the process through which it is transmitted to the crime laboratory. Attention will also be given to knowledge requirements of the evidence technician in terms of the capabilities and techniques of the crime laboratory. Prerequisite: CJA 252 or permission of instructor.

CJA 340 MANAGEMENT OF VOLUNTEERS IN CJA 3 cr.
Develops an understanding of the importance of the volunteer movement in criminal justice administration. It shows how volunteers have been and can be used in criminal justice agencies. Analyzes the motives of volunteers and assists the professional in the screening and training of volunteers. Recruitment and rewarding of volunteers is also discussed.

CJA 354 CRIMINAL LAW 3 cr.
Principles, theories and doctrines of the law of crimes with a unified study of legal defenses; elements and proof in crimes of frequent concern; importance of criminal law at the enforcement level is considered from crime prevention to the courtroom; case analysis.

CJA 356 LAW OF CORRECTIONS 3 cr.
Analysis of the legal dimension of sentencing; the correctional treatment of persons under sentence, and conditional release and revocation with emphasis on administrative decision-making in the correctional process.

CJA 357 CORRECTIONAL STRATEGIES 3 cr.
Offender classification; special offender groups, treatment, custody, recidivism, and strategies designed to change offender conduct.

CJA 359 JUVENILE JUSTICE 3 cr.
Structure and format of the juvenile justice system-police, courts and corrections; analysis and description of the organizational structure of each of the subsystems of the juvenile justice process; introduction to juvenile justice literature and research findings.

CJA 395 DELINQUENCY AND THE CRIMINAL JUSTICE SYSTEM 3 cr.
Exposes students to the full impact of the delinquency problem. Theories of delinquency causation, prevention, and rehabilitation will be critically examined.

CJA 401 ADVANCED INDUSTRIAL SECURITY 3 cr.
Advanced course of industrial and government security concepts, principles, and methodologies; knowledge of relationships of industrial security procedures in business organizations to the Department of Defense National Security Program.

CJA 405 RESEARCH METHODS IN CRIMINAL JUSTICE 3 cr.
An introduction to research methodology with particular emphasis placed on criminal justice issues. Examines research theory, its major components, and its application to various criminal justice agencies including the police, courts, correctional institutions, etc.

CJA 450 PRACTICUM IN CRIMINAL JUSTICE ADMINISTRATION 1 - 12 cr.
Educational and work experience in an actual criminal agency-law enforcement, courts, corrections or industrial security; applicable agency research project; periodic conference with criminal justice agency personnel and faculty advisor. May be taken for one through twelve credits.

CJA 453 POLICE ORGANIZATION AND ADMINISTRATION 3 cr.
Organizational theory, budgeting, personnel management planning, information management theory, civil service, unions, management prerogatives, supervision, executive development, manpower distribution schemes, and policy development and execution as applied in both small and large law enforcement agencies.

CJA 496 SELECTED TOPICS 3 cr.
An intense analysis of a selected topic in law enforcement, adjudication, and correctional fields. Intended for advanced undergraduates, graduates, and in service professionals. May be taken for a total of nine credits.

CJA 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

COMMUNICATION

COM 101 ORAL COMMUNICATION 3 cr.
Objectives are to help the student to formulate his/her own ideas coherently, evaluate factual material, and use sound reasoning patterns in his/her preparation and attempts to communicate concepts orally; to determine and select the most effective means of expression in formal and informal speaking situations. Required of all Mansfield students.

COM 200 ORAL INTERPRETATION 3 cr.
An introductory course in presenting oral readings of various literary genres. It involves written analysis and practical experience in presenting selections, and the understanding and appreciation of oral interpretation as the communication of the readers impression of the authors intent as an artistic representation of his/her world in a piece of literature. Prerequisite: COM 101 or permission of instructor.

COM 201 INTRODUCTION TO MASS MEDIA 3 cr.
Studies the application of modern mass media, its origin, history, theory, principles, and philosophy to the areas of entertainment, instruction, and audience persuasion. Practical experience in the basic media is provided.

COM 203 VOICE AND ARTICULATION 3 cr.
A study of basic physiology and phonetic analysis. It begins with transcription and evaluation of the student's speech. Subsequent attention is given to the correction of individual faults in voice and articulation habits in order to achieve clear and effective communication. Prerequisite: COM 101 or permission of instructor.

COM 204 PUBLIC SPEAKING 3 cr.
Advanced study of the construction, preparation, and delivery of the basic types of speeches and of their effect in public speaking situations. Prerequisite: COM 101 or permission of instructor.

COM 206 FORENSICS 1 cr.
Designed for the student interested in intercollegiate forensics. Students are involved in the theory and practice of competitive speaking in debating, extemporaneous speaking, original oratory, oral interpretation, and other forensic events. Prerequisite: permission of instructor. May be taken for a total of eight credits.

COM 210 INTRODUCTION TO PUBLIC RELATIONS 3 cr.
Study of the history, principles, and practice of public relations in business, education, government, and other organizations.

COM 215 AUDIO PRODUCTION 3 cr.
An introductory course in the theory and operation of audio equipment and the creation of various audio presentations. Students write, produce, and perform in a series of individual and group projects.

COM 220 AMERICAN BROADCASTING HISTORY 3 cr.
An introduction to the American broadcasting system which examines the history of the medium and relates it to current issues in electronic media. The course utilizes historical programming examples, examines broadcast and cable technology, and develops student awareness of the importance of electronic media in our society. Prerequisite: COM 201.

COM 230 WRITING FOR BROADCASTING MEDIA 3 cr.
A basic course in the writing techniques used in American radio and television. The course focuses on the development of original ideas for a range of commercial and promotional needs, including an original television series. Prerequisite: JN 100

COM 301 TELEVISION PROGRAM DESIGN I 3 cr.
Study of the theoretical and practical aspects of television program conceptualization, scripting, production, presentation, and evaluation. Prerequisite: COM 201 and permission of instructor.

COM 303 TELEVISION AND RADIO ANNOUNCING 3 cr.
In-depth training in effective communication skills employed by broadcasters. Prerequisite: COM 201, 203, 215 301.

COM 304 TELEVISION PROGRAM DESIGN II 3 cr.
Study of the theoretical and practical aspects of television program conceptualization, scripting, production, editing, presentation, and evaluation. Emphasis is on the application of these elements in a variety of program situations. Prerequisite: COM 201 and 301.

COM 310 ELECTRONIC MEDIA MANAGEMENT 3 cr.
Presents current practices, problems, and issues of electronic media management. Lectures, readings, and class presentations by industry representatives provides an introduction to the business aspects of electronic media. Prerequisite: COM 201 and 220.

COM 320 PUBLIC RELATIONS WRITING TECHNIQUES 3 cr.
An advanced level investigation of the theory and practice of public relations. Special emphasis is placed on public relations writing for clients, media, and other audiences. Prerequisites: COM 210, JN 100.

COM 325 INTERPERSONAL COMMUNICATION 3 cr.
Development of cognitive, affective, and psychomotor skills as they relate to interpersonal communication. Student participation in both the discussion of principles and application of interpersonal exercises.

COM 330 PARLIAMENTARY PROCEDURE 3 cr.
Examines history, philosophy, and practice of parliamentary procedure as it applies to our democratic society. Emphasis is on the development of procedures and includes practice in the use of the theories.

COM 336 BUSINESS AND PROFESSIONAL COMMUNICATION 3 cr.
Exploration of dyadic relationship behaviors designed to impact communication skills in the business environment. Sample topics include: the dyadic process, types of interviews, communication and research in a business environment, business correspondence, communicating with the business staff, legal issues, performance appraisals, organizational discipline, career planning, business etiquette and new company orientation. Prerequisites: COM 101, ENG 112, or BUS 130.

COM 340 PROFESSIONAL ISSUES IN COMMUNICATION 3 cr.
Research, prepare, present, and evaluate contemporary issues in the communication field. Investigate professional communication associations and career paths in respective emphases. Prerequisite: COM 101, 201, and JN 100.

COM 350 BROADCAST WORKSHOP 3 cr.
Emphasizes the production of programs designed for public reception. Students will work under professional production team discipline in the areas of format development, advanced writing production, and post production. May be repeated for 6 credits. Prerequisites: COM 201, 301, and 304.

COM 360 ORGANIZATIONAL COMMUNICATION 3 cr.
Examines the process of communication within organizations. Investigates formal and informal communication networks to gain a greater understanding of the vital role that they play within organizational structures and operations. Prerequisite: COM 101.

COM 370 STORYTELLING IN PERFORMANCE 3 cr.
This course will involve the study of the history and theories of storytelling. During the semester, each student will have practice in the creation, development, and performance and criticism of at least three types of stories. Graduate students will be expected to do a term paper and more coaching.

COM 400 COMMUNICATION THEORY 3 cr.
Study of the major concepts, principles, models, and theories of human communication including, General Systems Theory, General Semantics, role behavior, the diffusion of innovation, the role of language in communication, linguistics, and the psychology of communication. These provide a framework for an investigation of the process of communication on the intra personal, interpersonal, small group, one-to-many, and mass media levels.

COM 401 PERSUASION 3 cr.
A study of the psychology of persuasion and its use in a free society, and propaganda and its effect on our daily living. Prepares the student to evaluate persuasive messages, to use persuasion effectively, and to appreciate the ethics of persuasion.

COM 403 SPEECH WRITING 3 cr.
Practical experience in the techniques of speech writing for speakers and public relations practitioners. Emphasis is placed on actual speech writing situations.

COM 404 TELEVISION REPORTING 3 cr.
Focus is on concepts and practice of broadcasting techniques as applied to live and taped television performance. Prerequisite: COM 203, 303 and 304 or permission of instructor.

COM 410 (THT) INTERNSHIP 6 - 15 cr.
Supervised and evaluated participation in varied settings provides practical application of theoretical principles. May be taken for six through fifteen credits.

COM 415 CONTEMPORARY AMERICAN HUMOR 3 cr.
A critical study of contemporary humor employing a variety of communication theories of analysis and criticism. Areas such as television, film, writing, and stand-up will be examined. Prerequisite: COM 101.

COM 420 PUBLIC RELATIONS WORKSHOP 3 cr.
Practical study of public relations. Each student is involved in planning and directing a campaign proposal for a non-profit organization and implementing at least one special event. Prerequisites: COM 210, JN 100, COM 320, or permission of instructor.

COM 435 INTERNATIONAL BROADCASTING 3 cr.
Designed to familiarize students with international broadcasting systems and global communication issues. Lectures, research projects, and classroom presentation of international radio and television programming examples are used to broaden perspectives and international understanding. Prerequisite: COM 201 and 220.

COM 440 COMMUNICATION LAW 3 cr.
Provides a background in communication law as it affects the conduct of the print and electronic media industries. Will study landmark cases and investigate legal industry, and ethical issues which confront communication professionals. Prerequisite: COM 201.

COM 450 (THT) SPECIAL PROJECTS 1 - 3 cr.
A project initiated by the student to increase his/her knowledge in an advanced area not offered as a regular class. Intensive study of a subject area under the guidance of a faculty member who has special expertise in that subject. Prerequisite: permission of instructor. May be taken for 1 through 3 credits, but not to exceed 9 credits total.

COM 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

DIETETICS

DIT 101 PERSONAL NUTRITION 3 cr.
Examines how good nutrition improves health and risk factors for nutrition related diseases. This is an excellent course for people who wish to improve their eating habits. This course DOES NOT fulfill requirements for the Nursing program.

DIT 211 INTRODUCTION TO NUTRITION 3 cr.
Introduces the science of nutrition, the nutrient needs of the body, and the foods that meet these needs.

DIT 305 PRINCIPLES OF FOOD SCIENCE 3 cr.
Applies physical and chemical principles as related to the selection, preparation, and storage of food.

DIT 306 MEAL MANAGEMENT 3 cr.
A study of the principles of planning, preparation, and service of meals. Discussion of food safety, sanitation, marketing, menu planning and government regulations are included. Prerequisite: Dit 211, 305 and permission of instructor.

DIT 314 NUTRITION THROUGHOUT THE LIFE CYCLE 3 cr.
Nutritional requirements and assessment of humans from conception to old age, including the study of nutrition as it relates to health and disease common to each phase of the life cycle. The impact of societal and environmental factors on nutrient intake will be examined. Prerequisite: DIT 211 or permission of instructor.

DIT 315 FOOD SERVICE ORGANIZATION AND MANAGEMENT 3 cr.
Management functions in the food service industry. Methods, procedures, and techniques in dealing with personnel. Prerequisite: DIT 215 and 216 or permission of the instructor.

DIT 316 COMMUNITY NUTRITION 3 cr.
Addresses issues of nutrition services in the community including needs, assessment, implementation, and program evaluation. Provides opportunity for student to become familiar with WIC, school lunch, congregated meals, cooperative extension, etc. Prerequisite: DIT 211 or permission of instructor.

DIT 410 DIET THERAPY 3 cr.
The study of the physiology of disease states, related nutritional implications and indicated dietary modifications. The role of the dietician, as a member of the health care team, will be emphasized. Prerequisite: DIT 211, 215, 216, CHM 101 and 102.

DIT 411 QUANTITY FOOD PRODUCTION 4 cr.
Quantity food production, menu planning, purchasing, receiving, and sanitation and safety techniques in food service. Laboratory experience in quantity food production. Prerequisite: DIT 215 and 216 or permission of instructor.

DIT 417 SURVEY OF NUTRITION 3 cr.
Chemistry of nutrients, metabolism, and normal nutritional requirements throughout the human life cycle. Current research, nutrition myths, and assessment techniques are highlighted. Prerequisite: eight credits in Chemistry, three credits in foods and DIT 211.

DIT 419 DIETETICS PRACTICUM 3 cr.
Students are employed or volunteer in a hospital or food service operation. A written description and an oral presentation of their experience is required. Equivalent of six weeks employment. Prerequisite: DIT 410 and 411 or permission of instructor, overall 2.5 QPA and 3.0 QPA in the major, 21 credits with DIT prefix, and senior status.

DIT 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

ECONOMICS

***ECO 101 PRINCIPLES OF MACROECONOMICS 3 cr.**
An introduction to aggregate economics with emphasis on interdependence of sectors of an economy, aggregate concepts, determination of national income and fiscal and monetary policy for stabilization.

***ECO 102 PRINCIPLES OF MICROECONOMICS 3 cr.**
Examines the mechanism of the free enterprise system; pricing, production, and employment under various market conditions; functional distribution of income; selected topics in modern theory of general equilibrium and welfare economics.

***ECO 204 HISTORY OF ECONOMIC THOUGHT 3 cr.**
A study of economic ideas from the eighteenth century to the present. A brief review of physiocracy and mercantilism followed by a closer survey of classical liberalism, pre-Marxist and utopian socialism. Marxism, neoclassicism, institutionalism, and other contemporary developments. Prerequisite: ECO 101 and 102 or permission of instructor.

***ECO 205 CONTEMPORARY ECONOMIC PROBLEMS 3 cr.**
Examination of some of our crucial economic problems: unemployment, inflation, poverty; also some of the minor issues: right-to-work, national debt, and of several international concerns, e.g., the Common Market. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 301 INTERMEDIATE MACROECONOMIC THEORY 3 cr.
Develops models of the macroeconomy and analyzes the level and distribution of income, theories of unemployment, theories of consumption, theories of the public economy, theories of investment, the role of money, theories of crisis, theories of inflation, and theories of growth from alternative paradigms. A macroscopic view of the economy and the ability to analyze and forecast business conditions are developed. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 302 INTERMEDIATE MICROECONOMIC THEORY 3 cr.
Introduction to the models and methods of modern microeconomic theory, concentrating on individual and firm decision making and on industry equilibrium; a brief treatment of general equilibrium theory and welfare analysis. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 305 ECONOMETRICS 3 cr.
The orientation of this course is toward the analysis and interpretation of economic data. This course will examine the general linear regression model and its application to economics, including violations of the classical model assumptions.

ECO 310 BUSINESS AND ECONOMIC FORECASTING 3 cr.
This course is an introduction to the various methods economists and business managers use to forecast economic variables. Topics covered include regression techniques, exponential smoothing, decomposition of time series, moving averages, ARIMA models, and VAR models. Prerequisites: ECO 101, 102, and MA 125.

ECO 311 MONEY AND BANKING 3 cr.
An inquiry into the monetary system of the U.S. Brief examination of historical development; the functioning of monetary policy is considered. Emphasis is on the public/private nature of our banking system. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 315 PUBLIC FINANCE 3 cr.
Investigates theories of taxation; normative and positive theories of the public economy; various taxes; tax incidence and the distribution of income and wealth; taxes and microeconomic behavior; and the distribution of expenditure benefits. Provides students with an understanding of the functions of taxation and public expenditures in the process of accumulation and legitimization. Prerequisite: ECO 101 and 102.

ECO 321 COMPARATIVE ECONOMIC SYSTEMS 3 cr.
Comparative analysis of different ways that countries solve their fundamental economic problems. Covers all systems from Capitalism to Communism. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 325 DEMOGRAPHIC ANALYSIS 3 cr.
An introduction to aggregate economics with emphasis on interdependence of sectors of an economy, aggregate concepts, determination of national income and fiscal and monetary policy for stabilization.

ECO 333 INTERNATIONAL ECONOMICS 3 cr.
A study of the economics aspects of international relations with particular emphasis on the economic basis for trade, international monetary problems, commercial policy, and international agencies and agreements. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 401 LABOR ECONOMICS 3 cr.
Equal consideration is given to the market and institutional factors of labor management relations. The role of government especially as defined in major legislation is examined. Historical development of trade unions serves as an introduction. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 405 MATHEMATICAL ECONOMICS 3 cr.
An introduction to using mathematical tools in economic analysis. Prerequisite: ECO 101, 102 and MA 129 or permission of instructor.

ECO 420 INDUSTRIAL ORGANIZATION 3 cr.
Examines the market structure, conduct, and performance in the unregulated sector of the American economy. Characteristics and economic problems of regulated public utilities is also studied, as well as, public policies related to promotion or restriction of competition. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 450 INTERNSHIP 3 - 12 cr.
Designed to allow the student the opportunity to learn in a professional setting. It must involve the application of economic theory and provide an opportunity for work involving the application of academic skills. Consult an academic advisor for departmental internship policies. May be taken for 3 through 12 credits.

ECO 485 MANAGERIAL ECONOMICS 3 cr.
A rigorous development and application of microeconomic theory with an emphasis on the tools and techniques most useful to managers in a decision making environment. Topics include demand analysis, production and cost analysis, market structure, pricing strategies, risk analysis, estimation and forecasting. Prerequisite: MA 125 and 170 or permission of instructor.

ECO 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

EDUCATION

ED 090 COLLEGE STUDY SKILLS 3 cr.
Designed to develop effective study skills for assignments or classes requiring listening, note-taking, test-taking, or library use and students needing assistance in effective use of college textbooks. DOES NOT COUNT TOWARD TOTAL CREDITS NEEDED FOR GRADUATION.

ED 100 SCHOOLS AND SOCIETY 3 cr.
An exploration and examination of the critical issues/concerns facing public policy in education and demonstrating knowledge about education in today's society.

ED 101 INTRODUCTION TO EDUCATION 1 cr.
Provides pre-professional experiences and information about fundamental concepts related to teaching and learning in elementary and secondary schools.

ED 200 INTRODUCTION TO SECONDARY EDUCATION 2 cr.
Practical emphasis on the problems of secondary school teaching; school organization and administrations; curriculum and co-curricular activities; examination of school law. This course should be scheduled in the fourth semester as it is a pre-requisite for admission into the upper division.

ED 201 PERSONAL CAREER DEVELOPMENT 2 cr.
Designed as an overview of the world of work relevant to western society. Current theories of vocational development are explored and the students vocational development is investigated. Laboratory work involves the collecting, evaluating, classifying, and dispensing of occupational, educational, and social information.

ED 202 SECONDARY PRE-PROFESSIONAL EXPERIENCE 2 cr.
Introduction to observation and participation in the secondary schools, including a field experience component. Students will develop a greater understanding of the secondary school as a setting for teaching and learning. Prerequisite: ED 101.

ED 215 AUDIO-VISUAL COMMUNICATION 2 cr.
a study of the field of educational theory and practice concerned with the design and use of messages which control the learning processes.

ED 301 EVALUATIVE TECHNIQUES 2 cr.
A basic testing and measurements course. Students study the domains of educational objectives, evaluation theory, the application of basic statistics to test data, and principles for selecting and interpreting standardized tests. Students will develop a test related to their area of teaching specialization.

ED 302 INSTRUCTIONAL TECHNOLOGY 2 cr.
An introduction to both traditional and contemporary types of instructional media including micro-computers, interactive teleteaching, and telecommunications. Students demonstrate skill in the use, production, and operation of selected areas of this technology.

ED 305 (PSY) EDUCATIONAL PSYCHOLOGY 3 cr.
A study of the application of learning theory principles to the educational and institutional setting. Provides demonstrations and field experiences to enhance the applicability of these principles. Prerequisite: PSY 101.

ED 306 TUTORING IN THE EDUCATIONAL SYSTEM 3 cr.
Offers training in tutoring techniques for various subjects. Provides information in training, utilizing, and evaluating tutors in elementary and secondary classroom. Students participate in supervised tutoring sessions with college students.

ED 310 BASIC READING PRACTICES FOR CONTENT AREA AND SPECIAL TEACHERS 3 cr.
Designed to provide instructional experiences that enable secondary content teaching candidates and special field teacher candidates to develop selected basic knowledge, skills, and attitudes regarding the reading learning process.

ED 312 TEACHING SECONDARY ENGLISH LANGUAGE ARTS 3 cr.
Designed to prepare the student for the teaching of middle school/junior/senior high school English communication arts. In investigating the present resources of the school, the needs of the learners, and the potential for development in the field of English language study, the student will be preparing to function in either a traditional or experience-based school curriculum. Prerequisite: 2.5 QPA or permission of instructor.

ED 313 TEACHING OF SCIENCE IN SECONDARY SCHOOLS 3 cr.
Designed to provide the framework on which prospective science teachers can build their teaching activities. Areas of study will include goals and objectives of secondary science education; a study of principles of learning, strategies and techniques, and the role of instructional materials in the classroom. Experience will include observation and participation. Prerequisite: 2.5 QPA or permission of instructor.

ED 314 TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS 3 cr.
Examines methods of teaching secondary school mathematics in the "Information Age", the mathematics education reform movement, curricular changes and the standards for school mathematics, instructional methodology, use of materials, and development of skills required of secondary school mathematics teachers. Prerequisite: 2.5 QPA or permission of instructor.

ED 315 TEACHING OF SOCIAL STUDIES IN SECONDARY SCHOOLS 3 cr.
Provides a thorough background in the methods and materials for the teaching of social studies. Students will be involved in an observation-participation and teaching experience in classrooms and Living History programs at local and state parks. Prerequisite: 2.5 minimum QPA.

ED 317 METHODS OF TEACHING FOREIGN LANGUAGES 3 cr.
Emphasizes methods of teaching language skills, lesson organization, language resources, multi media applications including computer technology and the history of foreign language teaching. Prerequisite: 2.5 minimum QPA and Junior standing in BSE language program.

ED 330 GUIDANCE AND COUNSELING TECHNIQUES 3 cr.
The responsibility of the teacher in the guidance program of the school; the identification of student problems; significant information and its use; techniques in guidance and counseling are explored.

ED 400 STUDENT TEACHING 12 cr.
(By arrangement) Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor. Prerequisite 2.5 QPA.

ED 401 HISTORY AND PHILOSOPHY OF EDUCATION 3 cr.
Foundations course in the study of professional foundations of education and the relationship that exists between the school and the society it serves. The course reviews cultural, historical, and educational milestones from the Greeks to modern time.

ED 402 CONTEMPORARY ISSUES IN EDUCATION 2 cr.
A course preparing students for entering the teaching profession, first as a student teacher, and second as a beginning teacher. Emphasis is placed on issues and trends in education.

ED 410 HISTORICAL AND CURRENT ISSUES IN EDUCATION 3 cr.
Foundations of the historical and philosophical bases of education in a democracy and the relationship that exists between the school and the society it serves. Reviews cultural, historical, and educational milestones from the Greeks to modern times, with specific focus on contemporary education. A major facet of the study will be how education can effect societal change with reference to futurists' predictions of demands and opportunities for education in the twenty-first century. Prerequisite: junior or senior standing.

ED 420 BASIC PHOTOGRAPHY 3 cr.
A thorough introduction to the basic tools and creative techniques of black and white photography. Topics include operation and use of 35 mm camera and lens, exposure, film processing, printmaking, composition and design, and developing visual sensitivity.

ED 421 TELEVISION PRODUCTION 3 cr.
Covers the fundamentals and principles involved in the production of television programs. Includes the operation of TV equipment, production of visuals used in TV, and the production of a program.

ED 422 BASIC MOTION PICTURE PHOTOGRAPHY 3 cr.
Examines the process of planning and production of 8 mm and 16 mm films. Students plan the content for their films, select the treatment, film the subject, edit the film, add sound, and demonstrate the use of their film. Prerequisite: ED 420 or 421 or permission of instructor.

ED 480 COMPUTERS IN EDUCATION 3 cr.
Designed to instruct undergraduate education majors in the various uses of computers in the schools.

ED 482 COMPUTERS IN EDUCATION - METHODS AND MATERIALS 3 cr.
Designed to instruct undergraduate education majors in the design and organization of computer learning environments; and in the selection, utilization, and evaluation of courseware.

ED 485 TEACHING OF ADULTS 3 cr.
Designed to identify characteristics and needs of various target groups choosing or needing to be involved in educational offerings for adults. Explores lifelong learning as a phenomenon relative to many societal influences, and develop programs, teaching modules, and units which serve both society and the individual.

ED 488 DISTANCE LEARNING AND TELETEACHING 3 cr.
A survey and analysis of the distance learning movement in the United States with an emphasis on audio graphics teleteaching.

ED 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

ELEMENTARY EDUCATION

ELE 185 ADVANCED READING/STUDY SKILLS 2 cr.
A program designed for students needing assistance in developmental reading.

ELE 202 PRE-PROFESSIONAL EXPERIENCE 2 cr.
Provides sophomores with clinical experiences in elementary education which include identification and analysis of current educational practices, brief episodes of exploratory teaching, investigations of career possibilities and their requirements, an orientation to the Education Department and informal advisement seminars.

ELE 300 BEGINNING SCHOOL YEARS 2 cr.
A study of the developmental needs of the young child, theoretical bases for major teaching functions, current trends in activities, teaching procedures and materials, and observation in neighboring schools.

ELE 301 OBSERVATION AND PARTICIPATION IN ELEMENTARY EDUCATION 3 cr.
Provides juniors with the following observation, participation and professional guidance experiences: observation of an elementary classroom; orientation to policies and practices of an elementary school; opportunity to observe the in-service teacher in the performance of his/her duties; introduction to administrative duties of an elementary classroom; the privilege of working with individual children, small groups of children and an entire classroom under supervision; and the opportunity to receive feedback on performance from the cooperating teacher and the college supervisor. Prerequisite: 2.5 QPA.

ELE 350 CHILD DEVELOPMENT 3 cr.
Examines development from conception and infancy, through preschool and middle school, and ends with adolescence. Major developmental theories that focus on the interaction of heredity and the environment are the key components.

ELE 360 CHILDREN'S LITERATURE 3 cr.
Uses of children's literature in the preschool and elementary school curriculum; promoting interest in children's books; social themes and issues reflected in children's literature.

ELE 362 WHOLE LANGUAGE AND EMERGING LITERACY 3 cr.
Introduction to the whole language approach to supporting emerging literacy in preschool and primary grade classrooms. Both current practices and theoretical foundations will be surveyed. Will model whole language strategies and methods of evaluation. Prerequisite: ELE 360. Dual listed with 525

ELE 383 TEACHING OF READING IN THE ELEMENTARY SCHOOL 3 cr.
Theoretical bases of the reading process; components of reading skill; major approaches to instruction; methods and materials for teaching elementary reading are examined. Prerequisite: 2.5 QPA.

ELE 384 TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL 3 cr.
Methods of teaching mathematics in the "Information Age", the reform movements curricular changes and emphasis, instructional methodology and use of materials, and development of mathematics skills required of elementary school teachers are examined. Prerequisite: 2.5 QPA.

ELE 386 TEACHING OF SOCIAL STUDIES 3 cr.
Principles, problems, materials, and techniques for the teaching of elementary social studies. In-school experience provided. Prerequisite: 2.5 QPA.

ELE 387 TEACHING OF SCIENCE 3 cr.
Principles, problems, materials, and techniques for the teaching of science in the elementary schools. Prerequisite: 2.5 QPA.

ELE 400 STUDENT TEACHING 12 cr.
(By arrangement) Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor. Prerequisite: 2.5 QPA.

ELE 402 SELECTED TOPICS IN ELEMENTARY EDUCATION 1 - 3 cr.
Designed to let students carry out in-depth studies in elementary teaching techniques. Includes lectures, seminar periods, and resource persons. Emphasis on student leadership, participation, and reading and discussion of educational literature. May be taken for one through three credits.

ELE 403 COMMUNICATION SKILLS WORKSHOP FOR ELEMENTARY SCHOOL TEACHERS 3 cr.
Designed as a workshop for undergraduate students who have completed ELE 383 and for in-service classroom teachers. Emphasis is on investigating techniques used by elementary teachers to improve communication skills for children. Prerequisite: 2.5 QPA.

ELE 405 EARLY CHILDHOOD CURRICULUM SEMINAR 3 cr.
Theoretical foundations of early childhood; planning including the classroom learning environment, schedules, goals, and thematic units; developmentally appropriate strategies for guiding children's learning and behavior; observing, recording, and evaluating; including parents and children with special needs. Prerequisite: ELE 301 and 362. Dual listed with 505

ELE 412 READING/WRITING IN BRITISH SCHOOLS 3 cr.
An examination of the integrated language arts curriculum employed in British education. This companion course to "Introduction to British Education" includes first-hand experiences observing and participating techniques used by British schools.

ELE 425 DIAGNOSTIC AND REMEDIAL READING 3 cr.
Tests and techniques to prevent, detect, and correct reading difficulties; special methods and materials for problem readers. Prerequisite: ELE 383 or permission of instructor.

ELE 488 INFORMAL DIAGNOSIS OF READINESS IN ELEMENTARY TEACHING 3 cr.
Designed to alert teachers to cognitive and affective factors which influence a child's readiness to learn. Emphasis is on informal assessment of cognitive and affective behavior as a basis for decisions about instruction for a child.

ELE 489 ENVIRONMENTAL EDUCATION FOR ELEMENTARY TEACHERS 3 cr.
A study of the methods, materials, and science background necessary to teach environmental education. Emphasis is on both science content and psychological grade placement of various activities.

ENGLISH

ENG 045 CONVERSATIONAL AND WRITTEN ENGLISH FOR INTERNATIONAL STUDENTS 3 cr.
Designed to raise skills of international students in conversation and elementary English grammar so they are competent to function in classes at the university that are taught in English. Students learn and practice grammar, syntax, and idioms through written drills, oral exercises, and practice paragraphs. Open to students who score 515 or below on TOEFL test. Two hours a week are required in the language lab. Meets 090 requirement. DOES NOT COUNT TOWARD TOTAL CREDITS NEEDED FOR GRADUATION.

ENG 090 BASIC WRITING SKILLS 3 cr.
Designed to prepare students to do college-level writing. DOES NOT COUNT TOWARD TOTAL CREDITS NEEDED FOR GRADUATION.

***ENG 100 INTRODUCTION TO WOMEN'S STUDIES 3 cr.**
Cross-disciplinary and cross-cultural examination of the ways that language, images, and socialization have constructed women's roles. Examines contemporary women's issues (work and family, sexuality, violence against women), as well as the women's movement and the role of women artists. Emphasis is on students (both female and male) working to discover the impact of these roles and issues in their own lives as well as in the larger world.

ENG 112 COMPOSITION I 3 cr.
Intensive reading and writing of expository prose. Analytical and critical thinking and college-level research skills are emphasized. Prerequisite: Exemption from ENG 090 or equivalent transfer course.

***ENG 115 INTRODUCTION TO LITERATURE 3 cr.**
Introduction to reading poetry, fiction, drama for understanding and enjoyment.

ENG 202 CREATIVE WRITING 3 cr.
Explores the fundamentals of creative writing through the use of writing exercises and the discussion of selected stories, poems, and creative essays. Emphasis will be placed on a portfolio of work submitted at the end of the semester.

***ENG 203 READINGS IN ANCIENT LITERATURE 3 cr.**
Introduction to some of the major characters, events, and ideas in the Greek, Roman, and Judeo-Christian mythologies that have so heavily influenced Western culture. (Mythology signifies the study of recurring patterns in thought and literature, not the separation of truth from fiction).

***ENG 204 READINGS IN WORLD LITERATURE 3 cr.**
Selected readings from nineteenth and twentieth century world literature, excluding British and American.

***ENG 207 READINGS IN BRITISH LITERATURE 3 cr.**
Selected readings from British literature.

***ENG 208 READINGS IN AMERICAN LITERATURE 3 cr.**
Selected readings from American literature.

***ENG 220 SPECIAL TOPICS IN LITERATURE 3 cr.**
A study of one of the following topics: Black Literature, Women's Literature, other Minority Literature, Recent Literature, Film, and Folklore. May be repeated for a total of 9 credits.

ENG 224 INTRODUCTION TO LINGUISTICS 3 cr.
Methods of analysis and description of language and ways in which human beings use their language. Of interest to students who wish to continue study of linguistics as well as those in a variety of professions who wish to read with understanding linguistic literature in their own field. Offered fall of odd years.

***ENG 225 ENGLISH GRAMMAR 3 cr.**
A systematic description of the rules of modern English grammar, making use of both traditional and contemporary grammatical theories. Offered spring semester.

***ENG 226 HISTORY OF THE ENGLISH LANGUAGE 3 cr.**
A study of the development of the English language from Old English to modern times with special attention to the causes of linguistic change. Offered fall semester.

ENG 230 WRITING FOR BUSINESS 3 cr.
Designed to prepare students for the daily writing tasks of the work place. Memos, reports, briefs, executive summaries, and feasibility studies comprise some of the tasks assigned in this course. E-Mail, the Internet, and word processing are also explored.

***ENG 305 COMPARATIVE LITERATURE 3 cr.**
Examines major works in a genre or movement, comparing two or more national literatures. May be taken for a total of nine credits. Offered spring semester. Prerequisite: ENG 112.

ENG 307 LITERATURE IN ENGLISH FROM AROUND THE WORLD 3 cr.
Study of literature written in English outside of the British Isles and the United States. Offered fall semester. Prerequisite: ENG 112.

ENG 308 SURVEY OF BRITISH LITERATURE I 3 cr.
Survey of major British literature from Beowulf through Neoclassicism. Offered fall semester. Prerequisite: ENG 112.

ENG 309 SURVEY OF BRITISH LITERATURE II 3 cr.
Survey of major British literature from the Romantics through the present. Offered spring semester. Prerequisite: ENG 112.

ENG 310 SURVEY OF AMERICAN LITERATURE I 3 cr.
Survey of 17th, 18th, and early 19th century American writers. Offered fall semester. Prerequisite: ENG 112.

ENG 311 SURVEY OF AMERICAN LITERATURE II 3 cr.
Survey of late nineteenth and twentieth century American writers. Offered spring semester. Prerequisite: ENG 112.

ENG 312 INTRO TO FICTION WRITING 3 cr.
Designed to help students find their true voice and true concerns as writers while mastering the essentials of the art. Emphasis is on writing exercises and then complete works, but also on becoming better readers. In-depth discussion of student work, the assigned readings, and the process of writing. Prerequisite: ENG 202 or permission of instructor.

ENG 313 COMPOSITION/LITERATURE II 3 cr.
Study of significant literary texts which serve as a basis for serious, thoughtful, mature writing. Must be passed with a minimum grade of "C-" before graduation. Prerequisite: Junior standing, 64 credits earned.

ENG 314 INTRO TO POETRY WRITING 3 cr.
Designed to help students discover and develop their voices and styles as poets. Explore poetry writing through writing exercises, through reading and discussing poems written by contemporary poets, and through discussing one another's poems in a supportive atmosphere. Prerequisite: ENG 202 or permission of instructor.

ENG 320 SPECIAL TOPICS IN LITERATURE 3 cr.
A specialized study of a topic in literature, film, or folklore. May be taken for a total of 9 credits.

ENG 324 COMPOSITION THEORY AND PRACTICE 3 cr.
Analysis of current theories about the writing process and methods of applying these theories, with actual practice in tutoring writing. Offered fall semester. Prerequisite: ENG 112 and 313.

ENG 330 TECHNICAL WRITING 3 cr.
Develops writing for the world of technology. Focuses on skills that will be useful on the job. Uses computer technology to access and produce simple graphics; and other new technologies, students write manuals, reports, online documentation and correspondence and feasibility studies of a technical nature.

ENG 333 ADVANCED COMPOSITION 3 cr.
Designed for proficient writers to enhance and improve their composing skills through intensive expository writing. Offered spring semester. Prerequisite: ENG 112 and 313 or permission of instructor.

ENG 350 OLD AND MIDDLE ENGLISH LITERATURE 3 cr.
Study of major British writers and works from the Anglo Saxon period to 1500 such as Beowulf, "The Wanderer" and "The Seafarer;" a selection of Middle English lyrics; a mystery play, "Everyman", "Sir Gawain and the Green Knight" or "The Pearl"; a selection of tales from Chaucer's "The Canterbury Tales and Malory". Offered fall of even years. Prerequisite: ENG 112.

ENG 351 SIXTEENTH CENTURY BRITISH LITERATURE 3 cr.
Studies major British writers from 1500-1600, stressing such works as the prose of More, the Elizabethan translations of Plutarch (North) and Montaigne (Florio), the verse drama of Marlowe, and the poetry of Sidney, Spenser, and Shakespeare. Offered spring of even years. Prerequisite: ENG 112.

ENG 352 SHAKESPEARE 3 cr.
Selected plays of Shakespeare with interpretation, evaluation, and attention to his development as a dramatist and poet. Offered fall semester.

ENG 353 SEVENTEENTH CENTURY BRITISH LITERATURE 3 cr.
Studies major British writers from 1600 to 1660, focusing on such works as the religious lyrics of Donne and Herbert, the philosophical prose of Browne, Bacon, and Hobbes, the cavalier libertinism of Herrick, Crew, and Rochester, and the canon of Milton's work, especially "Paradise Lost". Offered fall of odd years. Prerequisite: ENG 112.

ENG 356 RESTORATION AND NEOCLASSIC BRITISH LITERATURE 3 cr.
Study of major British writers from 1660 to 1800 such as Dryden, Swift, Pope, Gay, Fielding, and Johnson. Offered spring of odd years. Prerequisite: ENG 112.

ENG 357 BRITISH ROMANTIC LITERATURE 3 cr.
Studies major British writers from 1789 to 1830, such as Austen, Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Offered fall of even years. Prerequisite: ENG 112.

ENG 359 VICTORIAN LITERATURE 3 cr.
Study of major British writers from 1830 to 1900, such as Dickens, G. Eliot, Tennyson, Browning, and Arnold. Offered fall of odd years. Prerequisite: ENG 112.

ENG 360 TWENTIETH CENTURY BRITISH LITERATURE 3 cr.
Study of major British writers of the 20th century, such as Yeats, Eliot, Joyce, Lawrence, Shaw, Beckett, and Pinter. Offered fall of even years. Prerequisite: ENG 112.

ENG 362 AMERICAN ROMANTICISM 3 cr.
Study of major American Romantic writers, such as Emerson, Poe, Hawthorne, Melville, and Whitman. Offered spring of even years. Prerequisite: ENG 112.

ENG 363 AMERICAN REALISM AND NATURALISM 3 cr.
Study of major American writers between the Civil War and World War II, such as Dickinson, Twain, James, Chopin, Crane, Wharton, and Dreiser. Offered fall of odd years. Prerequisite: ENG 112.

ENG 364 TWENTIETH CENTURY AMERICAN LITERATURE 3 cr.
Study of major American writers since World War I, such as O'Neill, Fitzgerald, Cather, Faulkner, Hemingway, Frost, Stevens, and Williams. Offered spring of odd years. Prerequisite: ENG 112.

ENG 382 THEORY OF LITERATURE 3 cr.
A survey of the major critical approaches to literature. Offered spring of even years. Prerequisite: ENG 112.

ENG 401 SEMINAR IN ENGLISH STUDIES 3 cr.
A specialized and in-depth study of a major writer, a small group of related writers, a particular genre, or a specific limited time period from either American or British literature. May be taken for a total of 9 credits. Prerequisite: ENG 112.

ENG 411 ADVANCED FICTION WRITING 3 cr.
Through writing exercises, reading the work of published writers, and work shopping original manuscripts, students will work on creating a portfolio of short fiction. Students will, also, learn how to market their work. Prerequisite: ENG 313 or permission of instructor.

ENG 412 ADVANCED POETRY WRITING 3 cr.
Study of poetry by contemporary poets. Presentations will be made about poets of student's choosing. Learn how to evaluate literary markets, how to prepare a manuscript to be submitted for publication, and develop a chapbook of poems. Prerequisite: ENG 314 or permission of instructor.

ENG 414 CREATIVE NON-FICTION PROSE 3 cr.
Students will write about subjects of interest and importance to them using literary techniques and devices. Will read and discuss a selection of book-length non-fiction works: memoirs, diaries, socio-political commentary, and nature writing. Writing techniques and exercises designed to stir creativity and stimulate ideas will be used. Prerequisite: ENG 312 or 314 or permission of instructor.

ENG 416 NOVEL WRITING 3 cr.
Students will read and discuss published novels and work on writing their own, critiquing and discussing one another's work. Includes the first 3 chapters and a synopsis of the novel. Prerequisite: ENG 312 or permission of instructor.

ENG 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

ENVIRONMENTAL STUDIES

ES 300 HUMANS IN NATURE 3 cr.
Students explore the relationship between people and the natural world emphasizing modes of analysis drawn from social science, humanities, and art disciplines. The course focuses on the interdisciplinary understanding of selected issues. Prerequisites: GEG 222 and one of the following: BSC 103, CHM 103, GEL 102.

ES 497 INDEPENDENT STUDY 3 cr.
Working with an advisor outside the area of their majors, students produce interdisciplinary projects involving the relationship between people and nature. Prerequisite: Completion of 18 hours toward the Environmental Studies minor.

FRENCH

FR 101 INTRODUCTORY FRENCH I 3 cr.
For beginning students and those with less than two years of high school French. Emphasis is on grammar, pronunciation drills, aural comprehension, speaking, reading, and writing with language lab.

FR 102 INTRODUCTORY FRENCH II 3 cr.
Continuation of 101 with language lab. Prerequisite: FR 101 or equivalent.

FR 201 INTERMEDIATE FRENCH I 3 cr.
Reading texts, grammar review and further practice in aural comprehension, speaking, and writing with language lab. Prerequisite: three years of high school French or FR 102.

FR 202 INTERMEDIATE FRENCH II 3 cr.
Continuation of 201 with language lab. Prerequisite: four years of high school French or FR 201.

FR 205 PHONETICS PRONUNCIATION 1 cr.
Systematic pronunciation drill and phonetic transcription. Prerequisite: FR 102 or equivalent.

FR 300 CONVERSATIONAL FRENCH CIVILIZATION 3 cr.
Designed to gain more fluency and develop writing skills. Examines socio-economic, political, and cultural topics. Prerequisite: FR 202 or equivalent.

FR 305 ADVANCED FRENCH CONVERSATION 3 cr.
Continuation of 300. Students make oral commentaries and write reports.

FR 306 TOPICS IN FRENCH CIVILIZATION (HISTORY) 3 cr.
A brief survey of French history, with particular attention to major events and personalities. Prerequisite: FR 202 or equivalent.

FR 307 TOPICS IN FRENCH CIVILIZATION (GEOGRAPHY) 3 cr.
A study of the geography of French-speaking countries. Prerequisite: FR 202 or equivalent.

FR 308 TOPICS IN FRENCH CIVILIZATION (AFRO-FRENCH LITERATURE AND CIVILIZATION) 3 cr.
A study of Black literature written in French, Africa, and the West Indies. Prerequisite FR 202 or equivalent.

FR 309 TOPICS IN FRENCH CIVILIZATION (CONTEMPORARY PROBLEMS) 3 cr.
A study of the problems facing the people of French-speaking countries. Prerequisite: FR 202 or equivalent.

FR 310 BUSINESS FRENCH 3 cr.
An introduction to French business and its terminology: a broad study of the commercial procedures in France with a concentration on the acquisition of the necessary vocabulary.

FR 320 ADVANCED FRENCH STRUCTURE 3 cr.
A final review of the structure of French and study of short literary texts. Prerequisite: FR 202 or equivalent.

FR 330 SURVEY OF FRENCH LITERATURE I 3 cr.
Selected readings of major French writers through the 18th century, outside readings and reports, literary movements, style and form. Prerequisite: FR 202 or equivalent.

FR 331 SURVEY OF FRENCH LITERATURE II 3 cr.
Selected readings of major French writers since 1800; outside readings and reports, literary movements, style and form. Prerequisite: FR 202 or equivalent.

FR 339 FRENCH LITERATURE OF THE MIDDLE AGES AND RENAISSANCE 3 cr.
Reading and discussion of the beginnings of French literature to the end of the 16th century. Prerequisite: FR 330 and 331 or permission of instructor.

FR 340 FRENCH CLASSICAL LITERATURE 3 cr.
Critical readings and discussion of the major dramatic works of Corneille, Moliere and Racine with supplementary reading on general background. Prerequisite: FR 330 and 331 or permission of instructor.

FR 341 FRENCH LITERATURE OF THE ENLIGHTENMENT 3 cr.
Reading and discussion of the works of Voltaire, Rousseau, and Diderot. Prerequisite: FR 330 and 331 or permission of instructor.

FR 342 CURRENTS IN NINETEENTH-CENTURY FRENCH LITERATURE 3 cr.
The works of French authors as well as the main currents and form of literary expression from the beginning of Romanticism to the end of the century; Hugo, Balzac, Stendhal, Flaubert, and Zola. Prerequisite: FR 330 and 331 or permission of instructor.

FR 343 ASPECTS OF TWENTIETH-CENTURY FRENCH LITERATURE 3 cr.
Development of the novel and modern French theater: Gide, Alain-Fournier, Proust, Mauriac, Malraux, Sartre, Camus, Bernanos, St. Exupery, Green, and Lonesco. Reading and discussion of major works and a written report. Prerequisite: FR 330 and 331 or permission of instructor.

FR 350 DEVELOPMENT OF FRENCH POETRY 3 cr.
A study of the major works of poets from Villon to the present. Emphasis on interpretation and diction. Study of the French poetic. Prerequisite: FR 330 and 331 or permission of instructor.

FR 370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
Open to students who wish to continue the study of French abroad. The number of credits granted is based upon validated credentials presented to the department. Plans for foreign study should be submitted at least one semester prior to departure. Regulations regarding study abroad are available in the Office of the Provost/Vice President for Academic Affairs.

FR 371-380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See FR 370 for course description.

FR 400 SENIOR SEMINAR 3 cr.
Special study projects in French language and literature; independent reading in the defined areas followed by written analytical reports in French. Open to seniors and in exceptional cases to juniors.
FR 405 HONORS COURSE FOR FRENCH MAJORS - CREDIT ARRANGED
An individual problems course. Open to qualified seniors with consent of the department. Credit arranged.

FR 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

GEOGRAPHY

***GEG 101 WORLD REGIONAL GEOGRAPHY 3 cr.**
Regional study of the world with special emphasis on the diversity of human existence and the world-scale problems currently faced.

***GEG 102 HUMAN GEOGRAPHY 3 cr.**
Study of aspects and distribution of culture. Topics include: population, health, language, religion, and economic activities.

***GEG 111 PHYSICAL GEOGRAPHY 3 cr.**
Introduces the earth-science component of geography. Topics include: earth-sun relationships, weather and climate, vegetation and soils, and landform.

***GEG 222 ENVIRONMENTAL ISSUES 3 cr.**
Surveys a wide range of environmental issues. Topics include: natural hazards, present and alternative energy sources, water resources and water pollution, waste disposal, and soil erosion.

GEG 300 GEOGRAPHIC RESEARCH 2 cr.
Studies the techniques of research in geography and effective written materials. A research paper is required.

GEG 312 WEATHER AND CLIMATE 3 cr.
Studies the basic concepts of meteorology and climatology; causes and consequences of climatic change, both natural and man-induced; weather maps, both surface and upper-level; and selected topics germane to current environmental issues.

GEG 320 CARTOGRAPHY 4 cr.
The principles and tools of basic cartography. Topics include: map projections, map design, and map production.

GEG 321 (GEL) GEOMORPHOLOGY 3 cr.
Studies the major theories of how landform and fluvial systems develop. Some discussion of implications regarding human use of the terrain. Prerequisite: GEG 111 or GEL 121 or permission of instructor. Dual listed with 515.

GEG 330 ADVANCED CARTOGRAPHY 4 cr.
Class-laboratory experience with the application and utilization of modern tools and techniques of cartography and graphics. Emphasis on map design and reproduction.

GEG 340 (GEL) MAP AND AIR PHOTO INTERPRETATION 4 cr.
Studies the interpretation of maps and aerial photographs. Topics include: location systems, scale, portrayal of relief, introductory surveying techniques, photogrammetry, interpretation principles, and specific applications.

GEG 350 URBAN GEOGRAPHY 3 cr.
Analysis of the localization, structure, and function of urban settlements and their supporting areas.

GEG 351 POPULATION GEOGRAPHY 3 cr.
Studies the spatial aspects of world population numbers, densities, and qualities; emphasizing the economic and social characteristics and mobility of the world's population.

GEG 360 ECONOMIC GEOGRAPHY 3 cr.
Relates modern methods of geographic analysis to the study of population, resources, primary and secondary production, tertiary and quaternary activities, and international trade.

GEG 364 TECHNIQUES OF GEOGRAPHIC MEASUREMENT 3 cr.
An introduction to the methods of geographic measurement, such as data-gathering and statistical-computerized analysis. Intended to familiarize students with more advanced methodologies of geographic research.

GEG 375 GEOGRAPHIC INFORMATION SYSTEMS 3 cr.
An analysis of the emerging field of Geographic Information Systems (GIS) and related technology with emphasis on both raster and vector data systems. Special emphasis is placed on practical applications. Prerequisite: GEG 430 suggested.

GEG 380 GEOGRAPHY OF THE UNITED STATES AND CANADA 3 cr.
An analysis of the physical and human aspects of the United States and Canada. Particular emphasis on regionalism and regional problems.

GEG 381 GEOGRAPHY OF PENNSYLVANIA 3 cr.
Analysis of the regional patterns of Pennsylvania. Topics include: topography, climate, waters resources, mineral resources, and the historical development of economic regions within the State.

GEG 412 (GEL) GLACIAL GEOLOGY 3 cr.
An analytical study of glaciers and the Pleistocene epoch. The origins and mechanics of glacier motion and the landscape features produced during glaciation will be studied. Causes of ice ages and their distribution through geologic time and the methods of Pleistocene stratigraphy will also be considered. Prerequisite: GEL 121.

GEG 415 SPECIAL PROBLEMS IN GEOGRAPHY 2 cr.
Offers extensive field experience and the opportunity to observe, first-hand, a variety of natural and human processes and phenomena. May be taken for two through four credits.

GEG 420 (GEL) REMOTE SENSING 3 cr.
Examines color and color infrared aerial photography as well as Landsat, SPOT, Thermal and Radar imagery. Emphasis is on computer processing of Landsat data. Prerequisite: GEG 364 or MA 125 or permission of instructor.

GEG 430 MODERN CARTOGRAPHIC TECHNIQUES 3 cr.
Map design and production using current computer-based techniques. Students will use a variety of software packages to design and produce maps. Prerequisite: GEG 320 or permission of instructor.

GEG 431 SEMINAR IN CARTOGRAPHIC PROGRAMMING 1 cr.
Examines computer programming for cartography and Geographic Information Systems. This course will cover spatial data bases, computer graphics, interface design and translations between major file formats. Prerequisite: GEG 320 and 430.

GEG 465 (BI 498) SEMINAR IN ENVIRONMENTAL SCIENCE 1 cr.
An upper-level seminar that integrates and applies concepts and skills taught in the basic courses of the Environmental Science emphasis.

GEG 496 INTERNSHIP 3 cr.
Offers practical work experience and the opportunity to apply and further develop skills taught in the Geography Department. May be taken for three through twelve credits. Prerequisite: permission of instructor.

GEG 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

GEG 499 HONORS COURSE 3 cr.
Designed for upper-division students who qualify for independent research which will be conducted under the direction of a department faculty member.

GEOLOGY

***GEL 102 ENVIRONMENTAL GEOLOGY 3 cr.**
The relationship of man to his environment will be examined with particular emphasis to problems of natural hazards (earthquakes, flooding, landslides), construction, ground water management, resources, utilization, impact mitigation and geological planning.

***GEL 121 PHYSICAL GEOLOGY 3 cr.**
A study of the solid portion of the earth, the materials of which it is composed and the processes which are acting on it. Included are such topics as rocks and minerals, weathering, and geologic structure.

***GEL 122 HISTORICAL GEOLOGY 3 cr.**
A study of earth history using the principles of GEL 121. Includes theories of earth origin, fossils, geologic time, and the various techniques used to unravel geologic history.

GEL 302 ENVIRONMENTAL GEOLOGY LABORATORY 1 cr.
A laboratory course for advanced studies in environmental geology. Topics will include; geologic hazards, mapping, mineral resource assessment, economic impact of geologic events and prediction/estimation exercises. Prerequisite: GEL 102.

GEL 321 (GEG) GEOMORPHOLOGY 3 cr.
Studies major theories of how landform and fluvial systems develop. Some discussion of implications regarding man's use of the terrain. Prerequisite: GEG 111 or GEL 121 or permission of instructor.

GEL 330 HYDROLOGY 3 cr.
Hydrology is the study of water in the geological environment. Emphasis is on the occurrence, movement, quality, and quantity of groundwater; quantitative geologic and hydrologic methods are included.

GEL 340 (GEG) MAP AND AIR PHOTO INTERPRETATION 4 cr.
Studies the interpretation of maps and aerial photographs. Topics include: location systems, scale, portrayal of relief, introductory surveying techniques, photogrammetry, interpretation principles, and specific applications.

GEL 350 STRATIGRAPHY AND TECTONICS 3 cr.
An integrated study of the basic concepts of Stratigraphy, Sedimentation, Structural Geology and Tectonics. Demonstrates the practical application of these subdisciplines to mining, resource assessment, hydrology, petroleum exploration and environmental geology. Prerequisite: GEL 122.

GEL 360 ROCKS, MINERALS AND FOSSILS 3 cr.
A basic introduction to Petrology, Mineralogy and Paleontology. Emphasizes the origin, occurrence, properties, uses and identification of rocks, minerals and fossils. A variety of activity-based instructional methods will be employed. Prerequisite: GEL 121.

GEL 401 FIELD TECHNIQUES IN GEOLOGY 3 cr.
A field-oriented course where the student learns actual data collection methods. Methods vary with the problem, but include planning field work, identifying and measuring all parameters of the outcrop and sampling techniques. Different surveying methods are used in locating outcrops. Interpretation of the field data is an integral part of the course.

GEL 412 (GEG) GLACIAL GEOLOGY 3 cr.
An analytical study of glaciers and the Pleistocene epoch. The origins and mechanics of glacier motion and the landscape features produced during glaciation will be studied. Causes of ice ages and their distribution through geologic time and the methods of Pleistocene stratigraphy will also be considered. Prerequisite: GEL 121.

GEL 420 (GEG) REMOTE SENSING 3 cr.
Examines color and color infrared aerial photography as well as Landsat, SPOT, Thermal and Radar imagery. Emphasis is on computer processing of Landsat data. Prerequisite: GEG 340 recommended.

GEL 465 (BIO GEG) SEMINAR IN ENVIRONMENTAL SCIENCE 1 cr.
An upper-level seminar that integrates and applies concepts and skills taught in the basic courses of the Environmental Science emphasis.

GEL 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

GERMAN

GER 101 INTRODUCTORY GERMAN I 3 cr.
For beginning students and those with less than two years of high school German. Elements of structure, reading and writing, intensive drill in pronunciation, aural comprehension, and speaking are examined. Language laboratory attendance is required one hour per week.

GER 102 INTRODUCTORY GERMAN II 3 cr.
Continuation of 101. Language laboratory attendance is required one hour per week. Prerequisite: GER 101 or equivalent.

GER 201 INTERMEDIATE GERMAN I 3 cr.
A review of the structure of the German language with additional emphasis on listening comprehension, speaking, reading, and writing. Language laboratory attendance is required one hour per week. Prerequisite: two years of high school German, GER 102 or equivalent.

GER 202 INTERMEDIATE GERMAN II 3 cr.
Continuation of 201. Increased emphasis on the development of the four language skills, using materials taken from actual cultural and literary selections. Language laboratory attendance is required one hour per week. Prerequisite: three years of high school German, GER 201 or equivalent.

GER 205 PHONETICS AND PRONUNCIATION 1 cr.
A study of German phonetics, phonemics, pronunciation, intonation, and rhythm. The theory of the speech and articulatory mechanisms will be studied; extensive practice exercises. Prerequisite: GER 102 or equivalent.

GER 300 CONVERSATIONAL GERMAN 3 cr.
Intensive oral practice in German for the development of a higher degree of fluency in the spoken language. Emphasis on topics of cultural, social, economic, and political nature. Prerequisite: GER 202 or equivalent.

GER 305 ADVANCED GERMAN CONVERSATION 3 cr.
Intensive development of oral expression for students desiring a higher level of oral fluency. Emphasis is on enabling the student to carry on discussion in more detail and giving oral reports. Prerequisite: GER 202 or equivalent.

GER 320 ADVANCED GERMAN STRUCTURE 3 cr.
Study and practical application of the German structural patterns with concentration on the morphology and syntax of the language. Prerequisite: GER 202 or equivalent.

GER 321 COMPOSITION AND STYLISTICS 3 cr.
Development of self-expression in writing. Emphasis is on simultaneous development of expression and stylistic writing. Frequent written assignments and at least one significant written assignment of a critical nature. Prerequisite: GER 202 or equivalent and recommendation of instructor.

GER 330 SURVEY OF GERMAN LITERATURE I 3 cr.
Designed to acquaint the student with the major literary movements and representative writers of German literature from 1750. Prerequisite: GER 202 or equivalent.

GER 331 SURVEY OF GERMAN LITERATURE II 3 cr.
Sequel to GER 330. A cross section of literary movements and significant writers from the earliest periods through 1750. Prerequisite: GER 202 or equivalent. GER 330 is recommended.

GER 335 PROSEMINAR: DEUTSCHLANDKUNDE 3 cr.
Students will become acquainted with the political, educational, and economic makeup of modern Germany, including special problems of the German reunification. Contemporary German culture will also be examined in its context within society as a whole. In addition, practical aspects of everyday German life (public transportation, mail system, social behavior, etc.) are covered.

GER 336 PROSEMINAR: LAENDER UND STAEDTE 3 cr.
Emphasis is on the cultural, economic, and social significance of each major geographical region along with main cities and tourist destinations in each. Students will also prepare individual presentations on an area that interests them.

GER 337 PROSEMINAR: TWENTIETH CENTURY GERMAN LITERATURE 3 cr.
Major literary movements along with works or selections of works by representative authors will be the focus of this course. Techniques and terminology of literary analysis will be covered. Students will prepare a research project on a particular author, genre, or movement.

GER 338 PROSEMINAR: NINETEENTH CENTURY GERMAN LITERATURE 3 cr.
Readings from principal authors of the 19th century will be used to analyze the various literary and social movements that characterized this period. Students will be expected to carry out a research project.

GER 341 PROSEMINAR 3 cr.
Change topic. Prerequisite: GER 202 or equivalent competency, GER 320 preferred.

GER 360 SEMINAR: GERMAN CULTURAL HISTORY 3 cr.
Survey of the cultural development of the German-speaking areas from the tribal migration period through the recent reunification. Emphasis is on literary, architectural, musical, scientific, and artistic achievements of each period and how these interact. Students will prepare several brief presentations and an in-depth project.

GER 361 SEMINAR: EIGHTEENTH CENTURY GERMAN LITERATURE 3 cr.
Literary and social periods of the 18th century and texts by representative authors will be stressed. Students will gain exposure to older literary styles and language usage. Each student will carry out a research project on one author or movement within the period.

GER 362 SEMINAR: GERMAN LYRIC POETRY 3 cr.
A representative sample of lyric poetry from the earliest extant examples up to that of contemporary times. Students will be exposed to metrical analysis, poetic devices and forms, and terminology used in literary discussions of verse. Written project and smaller oral presentations required.

GER 363 SEMINAR: THE GERMAN NOVELLE 3 cr.
This is a genre-study course that concentrates on the Novelle (longer short story or novelette) as it developed in the German-speaking countries. Authors studied are from the 19th and early 20th centuries, covering romanticism to realism.

GER 364 SEMINAR: GERMAN DRAMA 3 cr.
Representative plays and theories of drama from each of the main literary movements will be studied in their social and artistic contexts. A research project will be required, part of which might be, depending upon wishes of the class, actual scenes for presentation to class or campus audience.

GER 370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
"Strongly recommended for all German majors - especially those in the BSE program or who plan to pursue graduate work, but open to students of any major who wish to live and study in Germany." The number of credits granted is based upon validated credentials presented to the department. Plans for foreign study should be submitted at least one semester prior to departure. Regulations regarding study abroad are available in the Office of the Provost/Vice President for Academic Affairs.

GER 371 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
"Strongly recommended for all German majors - especially those in the BSE program or who plan to pursue graduate work, but open to students of any major who wish to live and study in Germany." The number of credits granted is based upon validated credentials presented to the department. Plans for foreign study should be submitted at least one semester prior to departure. Regulations regarding study abroad are available in the Office of the Provost/Vice President for Academic Affairs.

GER 372-380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See GER 371 for course description.

GER 400 SENIOR SEMINAR 3 cr.
Possible topics: works of one specific author (e.g., Boll, Brecht, Heine, Durrenmatt, Goethe, Schiller, Grass); children's literature and fairy tales; literature of the former East Germany; introduction to Middle High German; history of the German language; introduction to comparative Germanic philology. Other topics possible if prearranged with instructor.

GER 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

HEALTH AND PHYSICAL EDUCATION

HPE 100 HEALTH (PERSONAL AND COMMUNITY) 2 cr.
Includes health services, health instruction, and health environment dealing with contemporary principles, practices, and concepts serving personal, family, and community health.

HPE 101-148: 1 cr.
Serves the individual with little or no experience in the activity selected. Emphasis on beginner-level fundamental skills in seasonal activities for individual, dual, and team sports.

HPE 101 BEGINNING SWIMMING 1 cr.

HPE 102 BEGINNING BOWLING 1 cr.

HPE 103 BEGINNING TENNIS 1 cr.

HPE 104 BEGINNING BADMINTON AND TENNIS 1 cr.

HPE 105 BEGINNING BADMINTON AND GOLF 1 cr.

HPE 106 BEGINNING ARCHERY 1 cr.

HPE 107 BEGINNING BILLIARDS 1 cr.

HPE 108 BEGINNING RACQUETS 1 cr.

HPE 109 BEGINNING SKIING 1 cr.

HPE 110 BEGINNING GOLF 1 cr.

HPE 111 BASIC HORSEMANSHIP 1 cr.

HPE 112 TUMBLING 1 cr.

HPE 113 SOFTBALL AND VOLLEYBALL 1 cr.

HPE 114 ARCHERY AND VOLLEYBALL 1 cr.

HPE 115 CONDITION AND BODY AWARENESS 1 cr.

HPE 116 BASKETBALL AND SOCCER 1 cr.

HPE 117 BADMINTON AND RACQUETBALL 1 cr.

HPE 118 RACQUETBALL 1 cr.

HPE 119 AEROBIC AQUATICS 1 cr.

HPE 120 TENNIS AND BADMINTON 1 cr.

HPE 121 SOFTBALL - CONDITIONING 1 cr.

HPE 122 CONDITION AND WEIGHT TRAINING 1 cr.

HPE 123 BADMINTON AND VOLLEYBALL 1 cr.

HPE 124 GYMNASTICS 1 cr.

HPE 125 FIELD HOCKEY AND RACQUETBALL 1 cr.

HPE 126 FIELD HOCKEY 1 cr.

HPE 127 BEGINNING GOLF VOLLEYBALL 1 cr.

HPE 128 AEROBIC CONDITIONING 1 cr.

HPE 129 ARCHERY 1 cr.

HPE 130 GOLF 1 cr.

HPE 131 WALK LIFE FITNESS 1 cr.

HPE 132 HYDRO AEROBICS 1 cr.

HPE 133 TRAIL RIDING 1 cr.

HPE 134 BILLIARDS 1 cr.

HPE 135 RACQUETBALL AND TENNIS 1 cr.

HPE 136 RECREATIONAL SWIMMING ACTIVITIES 1 cr.

HPE 137 TENNIS AND VOLLEYBALL 1 cr.

HPE 138 TENNIS 1 cr.

HPE 139 SOFTBALL AND VOLLEYBALL 1 cr.

HPE 140 RACQUETS 1 cr.

HPE 141 BADMINTON AND RACQUETBALL 1 cr.

HPE 142 BADMINTON AND TENNIS 1 cr.

HPE 143 INTERMEDIATE SWIMMING 1 cr.

HPE 144 INTERMEDIATE SKIING 1 cr.

HPE 145 INTERMEDIATE TENNIS AND VOLLEYBALL 1 cr.

HPE 146 INTERMEDIATE BOWLING 1 cr.

HPE 147 ADVANCED BEGINNING SWIMMING 1 cr.

HPE 148 ADVANCED SWIMMING 1 cr.

HPE 149 LIFEGUARD TRAINING 1 cr.
Designed to provide necessary minimum skills for a person to serve as a non-surf lifeguard. Reaching, throwing, wading and swimming rescue techniques. American Red Cross certification upon successful completion. Prerequisite: current Standard First Aid and Adult CPR certification.

HPE 151 ADVANCED BADMINTON 1 cr.
Serves the individual with little or no experience in the activity selected. Emphasis on beginner-level fundamental skills in seasonal activities for individual, dual, and team sports.

HPE 160 LIFEGUARD INSTRUCTOR 1 cr.
Students currently certified as lifeguards will develop skills to teach lifeguard training and CPR for the professional rescuer. Prerequisites: Current Lifeguard and CPR Professional Rescue Certification or HPE 149.

HPE 164 AEROBIC CONDITIONING AND CPR 1 cr.
Foundations, design, and evaluation of individualized aerobic conditioning programs with a variety of activities and American Red Cross Community CPR.

HPE 203 PHYSICAL EDUCATION 1 cr.
Serves the individual with prior experience in the activity selected. Skills are evaluated and advanced skills and strategies utilized for the individual, dual, and team sports.

HPE 206 ATHLETIC TRAINING LAB I 1 cr.
An in-depth examination of the organization and administration of athletic training for the student seeking NATA certification. Clinical hours will be required to meet NATA standards. Prerequisite: Athletic training area of concentration and two semesters of experience as a student trainer.

HPE 207 ATHLETIC TRAINING LAB II 1 cr.
Examines all of the major muscles and the procedure for testing for injury to those muscles. Provides clinical work under the direct supervision of a licensed NATA certified trainer. Prerequisite: HPE 206.

HPE 225 WATER SAFETY INSTRUCTION 2 cr.
Provides students with the practical experience and knowledge needed to teach swimming beginning at the non-swimmer level up to advanced senior life saving. Prerequisite: completion of advanced life saving.

HPE 300 TECHNIQUES OF COACHING TRACK AND FIELD 3 cr.
Participation in actual training techniques in track and field. Planning and organizing equipment for a track program will be studied.

HPE 305 COACHING AND OFFICIATING WRESTLING 3 cr.
Practical training in wrestling fundamentals, strategy and the psychology of coaching, fundamentals of officiating, rule interpretation and preparation.

HPE 310 SPECIAL PHYSICAL EDUCATION FOR THE EXCEPTIONAL CHILD 3 cr.
A comprehensive analysis of the physically, emotionally, and socially handicapped student. Includes selected activities and achievement standards in the field of health, physical education, and athletics.

HPE 315 ATHLETIC TRAINING 3 cr.
Designed to provide experience in the application of various methods of treatment to athletic injuries. A study of preventive measures and medical management of athletic injuries.

HPE 320 BASIC FOOTBALL 3 cr.
Examines the methods, techniques, and psychology used in coaching football. Provide the prospective coach with knowledge of the personal problems in motivating and handling individual players.

HPE 330 COACHING BASKETBALL 3 cr.
Practical training in the areas of basketball fundamentals, individual and team play, strategy, and the psychology of coaching.

HPE 340 FIRST AID AND CPR (STANDARD AND ADVANCED) 3 cr.
Theory and application of the methods, techniques, and psychology used in first aid and safety. Basic, multi-media, SFAPS and CPR certification included.

HPE 341 ADVANCED FIRST AID AND CPR RECERTIFICATION 3 cr.
To provide advanced skills and knowledge when responding to first aid situations: to certify instructors where there is a need for basic first aid, multi-media first aid, and standard first aid and personal safety; to recertify current first aiders.

HPE 350 METHODS I, TEACHING HEALTH AND PHYSICAL EDUCATION IN ELEMENTARY SCHOOL 2 cr.
Principles, problems, materials, and techniques for conducting the health and physical education programs in the elementary schools.

HPE 360 KINESIOLOGY 3 cr.
Analysis of human motion based on anatomical and mechanical principles. Applications of mechanics to sports activity. Prerequisite: BIO 331 and 332.

HPE 370 PHYSIOLOGY OF EXERCISE 3 cr.
Critical analysis of physiological bases of muscular activity with special attention to general effects of exercise on body function. Prerequisite: BIO 331, 332 and HPE 360.

HPE 375 ADVANCED ATHLETIC TRAINING 3 cr.
An in-depth study of detailed orthopedic evaluation of injuries to athletes. Rehabilitation of specific major joints from post-op to competition will be studies. Prerequisite: HPE 206, 207 and 315.

HPE 376 ATHLETIC TRAINING LAB III 1 cr.
Examines the therapeutic modalities commonly used in the field of athletic training. Students in the area of concentration will be required to perform clinical work under the direct supervision of a licensed NATA certified athletic trainer. Prerequisite: HPE 206 and 207.

HPE 377 ATHLETIC TRAINING LAB IV 1 cr.
The use and misuse of prescription and non-prescription medication in athletics today. The student will be required to perform clinical work under the direct supervision of a licensed NATA certified athletic trainer. Prerequisite: HPE 376

HPE 390 COACHING BASEBALL 3 cr.
Provides the knowledge, skills, and attitudes to prepare students to coach high school baseball programs dealing with organizational factors of coaching as well as the strategies and skills of the game.

HPE 420 HUMAN BEHAVIOR IN COACHING 3 cr.
Designed for the experienced coach as well as the future coach to acquire a better understanding of the most important and least understood aspect of athletics. Includes appropriate techniques to teach athletics to consciously affect motivational processes.

HPE 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

HISTORY

***HST 101 WESTERN CIVILIZATION I 3 cr.**
A survey of significant ideas, events, and cultural developments in Western history from the emergence of ancient civilization to early modern times (circa 1660).

***HST 102 WESTERN CIVILIZATION II 3 cr.**
A continuation of 101, beginning with the early modern times to the present, including the political, economic, and social forces which affect our world today.

***HST 104 THE WORLD IN THE TWENTIETH CENTURY 3 cr.**
A study of the forces and concepts operating in the modern world with emphasis on the trouble spots at the present time.

***HST 201 AMERICAN HISTORY THROUGH THE CIVIL WAR 3 cr.**
A survey of American history covering the 17th century colonization; independence and formation of the Federal Union; nationalism, sectionalism and growth of democracy in the 19th century; and the Civil War.

***HST 202 AMERICAN HISTORY - RECONSTRUCTION TO THE PRESENT 3 cr.**
A continuation of 201, covering significant trends and events in the rise of modern industrial America, its emergence as a world power and events through the 1980's.

HST 205 HISTORY OF SPORTS IN AMERICAN SOCIETY 3 cr.
Topics include: evolution of major sports, influence of organization and technology, critics of sports, racism, a comparison with sports in other countries, the role of women and labor relations within sports, sports in the school, and various sports heroes.

HST 210 HERSTORY: THE AMERICAN SIDE OF WOMEN'S PAST 3 cr.
Explores the life stories, experiences, and thoughts of American women 1607-present. Themes are changing expectations of women and men in society, women in the labor force, and the equal rights movement.

HST 215 INTRODUCTION TO THIRD WORLD 3 cr.
A general survey of the third world emphasizing the development of civilizations, religions, cultures, and politics and the various philosophies employed to understand the third world.

HST 220 WORLD WAR II 3 cr.
The origin, background, and course of World War II and its effects upon world affairs. Deals with battles and the scientific, psychological, political, and economic impact of the war.

HST 225 INTRO TO AMERICAN MILITARY HISTORY 3 cr.
We trace the American military experience from its European origins to the present time. The evolution of U.S. military history is examined along institutional and operational lines with emphasis on land warfare. Selected lessons complement this focus by showing developments in naval and air warfare, and by examining major trends in European military history.

HST 232 AZTECS, INCAS, MAYAS 3 cr.
A study of the achievements, values, and organization of three Indian societies before the arrival of Columbus. Covers a number of multi-disciplinary topics including the nature of societal evolution, the benefits of alternative systems of government and justice, the purpose of polytheistic religions, and the reasons for the decline of a civilization.

HST 250 EAST EUROPEAN HISTORY 3 cr.
East European cultures, peoples, and states, with emphasis on the rise and development of national consciousness (1800-1950).

HST 295 TOPICS IN HISTORY 1 - 3 cr.
A special area that is of current interest. May be taken for 1 through 3 credits.

HST 300 HISTORIOGRAPHY 3 cr.
Introduces the student to the discipline, methods, and techniques of historical research and writing. Examines the major interpretations of history and historiographical writings. Prerequisite: one history course or permission of instructor.

HST 301 HISTORY OF COLONIAL AMERICA TO 1788 3 cr.
The exploration and settlement of North America with emphasis on the English colonies and their political, social, and economic developments. Prerequisite: one history course or permission of instructor.

HST 302 CONSTITUTION TO MANIFEST DESTINY (1789-1850) 3 cr.
The movement for American independence and events during the Revolutionary War and early national period. Prerequisite: one history course or permission of instructor.

HST 304 HISTORY OF THE CIVIL WAR AND RECONSTRUCTION 3 cr.
Sectional controversy; constitutional issues, secession and military conflict; the aftermath of the war, North and South, with emphasis on political development during reconstruction ending. Prerequisite: one history course or permission of instructor.

HST 306 AMERICA BETWEEN THE WARS 3 cr.
American politics, diplomacy and society in World War I, the nervous Twenties, the Depression Decade, and World War II. Prerequisite: one history course or permission of instructor.

HST 307 CONTEMPORARY AMERICA 3 cr.
American political, diplomatic, and social developments in the Atomic Era. Watergate, Vietnam and Civil Rights are key points studied. Prerequisite: One history course or permission of instructor.

HST 310 AFRO-AMERICAN EXPERIENCE 3 cr.
African heritage, Atlantic slave trade, American slavery, Civil War and Reconstruction, segregation and disfranchisement, the Harlem Renaissance, and Black Revolution, black resistance, and the quest for a black identity. Prerequisite: one history course of permission of instructor.

HST 315 (SWK) HISTORY OF SOCIAL WELFARE IN AMERICA 3 cr.
The development of the public welfare systems as a mirror reflecting Americans' changing attitudes toward misfortune and relief. Centers upon a central issue of historical evaluation and contemporary policy: the appropriate balance between assistance-security and work-independence objectives in public welfare efforts. Prerequisite: one history course or permission of instructor.

HST 340 THE ANCIENT WORLD 3 cr.
Growth and development of cultural, social, and intellectual foundations that formed the basis of our present institutions. Classical life and thought will be analyzed through a study of the great civilizations of Greece and Rome. Prerequisite: one history course or permission of instructor.

HST 345 MIDDLE AGES: LIFE AND STYLE 3 cr.
The political, socioeconomic, and cultural development of the civilization of Medieval Europe from the fall of Rome to the Medieval synthesis in the High Middle Ages. Prerequisite: one history course or permission of instructor.

HST 346 RENAISSANCE AND REFORMATION 3 cr.
Political, social, economic, and cultural forces involved in the transition from Medieval Western society with attention to the rise of national states and the growth of individualism. Reformation is highlighted. Prerequisite: one history course or permission of instructor.

HST 351 RISE OF MODERN ENGLAND 3 cr.
A survey of the social, political, economic, and constitutional themes that have shaped modern England since 1688. Prerequisite: one history course or permission of instructor.

HST 359 RUSSIA: BEGINNING TO 1917 3 cr.
Russian historiography, nature, and development of the Russian Empire from the time of Peter I to the Revolution of 1917. Compares development of Russia with states and examines the roots underlying the modern Soviet state. Prerequisite: one history course of permission of instructor.

HST 364 EUROPE IN THE TWENTIETH CENTURY - 1914-1939 3 cr.
Political, economic, and cultural developments in Europe in the twentieth century; attention is given to the factors involved in the two World Wars and their global impact and significance. First semester, 1914-1939; second semester, World War II and its aftermath. Prerequisite: one history course or permission of instructor.

HST 365 EUROPE IN THE TWENTIETH CENTURY - WORLD WAR II AND ITS AFTERMATH 3 cr.
Political, economic, and cultural developments in Europe in the twentieth century; attention is given to the factors involved in the two World Wars and their global impact and significance. First semester, 1914-1939; second semester, World War II and its aftermath. Prerequisite: one history course or permission of instructor.

HST 366 TWENTIETH CENTURY EUROPE 3 cr.
A study of the political, economic, cultural, and international developments in Europe during the twentieth century. particular attention is given to the background problems which led to the two World Wars and their global impact and significance. Prerequisite: Permission of instructor.

HST 375 COLONIAL LATIN AMERICA 3 cr.
Colonial era focusing on pre-Columbian civilizations, the conquerors, the creation of Spanish and Portuguese institutions for mastery of a multiracial society, the reforms of the 18th century, and the independence struggles. Prerequisite: one history course or permission of instructor.

HST 376 MODERN LATIN AMERICA 3 cr.
A modern period emphasizing the difficulty in creating a national self-identity, the impact of liberal and conservative philosophies on the 19th century, and the viability of revolutionary vs. non-revolutionary approaches to the problems of 20th-century Latin America. Prerequisite: one history course or permission of instructor.

HST 385 HISTORY OF THE MIDDLE EAST 3 cr.
The major political, economic, and cultural features of the Middle East with emphasis on modern colonialism in the area, Zionism, and the Arab States' contemporary relations with other nations. Prerequisite: one history course or permission of instructor.

HST 386 HISTORY OF SOUTHEAST ASIA 3 cr.
Peoples and states of Southeast Asia, Burma, Thailand, Cambodia, Laos, Vietnam, Malaysia, Indonesia, the Philippines, and includes the age of imperialism, colonialism, nationalism, and independence. Prerequisite: One history course or permission of instructor.

HST 387 HISTORY OF EAST ASIA 3 cr.
Traditional cultures and institutions of China and Japan and their roles in Korea and Southeast Asia; the role of Western powers in China's development; post-war changes; United States foreign policy in relation to the Far East; and the emergence of Communist China and Modern Japan are discussed. Prerequisite: one history course or permission of instructor.

HST 388 HISTORY OF AFRICA 3 cr.
After an introduction to the history of Africa prior to European colonization and a brief examination of colonialism on the continent, the course will focus on sub-Sahara Africa for the period from post World War II until the present, examining colonialism, nationalism, independence and continuing crises and problems of the nations of the continent. South Africa also will be emphasized. Prerequisite: one history course or permission of instructor.

HST 389 VIETNAM WAR 3 cr.
Examines the historical, military, political, religious, and social aspects of the war. Includes the effect on Vietnam politically and culturally. American domestic concerns, international aspects and consequences will be covered. Prerequisite: HST 202 or permission of instructor. Dual listed with 589.

HST 401 HISTORY OF PENNSYLVANIA 3 cr.
The founding and development of Pennsylvania, emphasizing the social, political, and economic characteristics of the Commonwealth; the diversity of its people; local and family history is an important aspect. Prerequisite: one history course or permission of instructor.

HST 406 THE WESTWARD MOVEMENT IN AMERICA 3 cr.
Settlement of the geographic areas and the influence of westward expansions on the political, social and economic development of the American people. Includes the trans-Mississippi West and role of the Plains Indian in American history. Prerequisite: one history course or permission of instructor.

HST 415 MODERN AMERICAN DIPLOMACY 3 cr.
Explores American diplomacy from the Spanish American War through recent events. Included are the techniques, purposes, and problems of diplomacy. Prerequisite: HST 202 or permission of instructor.

HST 425 THE HOLOCAUST 3 cr.
The systematic mass murder sits uneasily in history as many troubling questions remain unanswered. By applying historical analysis highly charged topics will be investigated. prerequisite: One history course or consent of the instructor.

HST 430 THE AMERICAN INDIAN: FROM BERING TO RED POWER 3 cr.
Covers the origins, culture, and history of the American Indian. The development of Indian policy by colonial rulers and the United States is studied and compared. Problems of assimilation and cultural conflict resulting from removal as well as modern Indian problems. Prerequisite: one history course or permission of instructor.

HST 444 INTRODUCTION TO HISTORICAL MUSEUMS, PRESERVATION AND SOCIETIES 3 cr.
Provides a broad background regarding museum work, historical societies and their function, and historical preservation. Prepares students for internships and potential careers in the field of museumology and preservation. Prerequisite: one history course or permission of instructor.

HST 450 INTERNSHIP 3 - 12 cr.
Provides pre-professional skills. Museum and archival work are examples of areas in which students can bring together academic training and practical experience. Prerequisite: permission of department chairperson, sponsoring instructor, and an agency. May be taken for 3 through 12 credits.

HST 451 FRANCE: FROM THE REVOLUTION TO THE PRESENT 3 cr.
Introduction to the social, political, economic, and constitutional themes that have shaped modern France since 1789. Prerequisite: one history course or permission of instructor.

HST 458 THE SOVIET UNION 3 cr.
Study of the Bolshevik Revolution and the founding of the Soviet Union with emphasis on the internal and external factors involved in world Communism and Soviet power politics. Prerequisite: one history course or permission of instructor.

HST 470 HISTORY OF MEXICO 3 cr.
Explores pre-Columbian civilizations to the present. Studies the interaction of various racial groups, the formation of a distinct Mexican national identity, and Soviet power politics. Prerequisite: one history course or permission of instructor.

HST 496 SEMINARS ON SELECTED TOPICS 3 cr.
In-depth knowledge of historical methodology and research. Significant historical problems are selected for oral discussion. Prerequisite: one history course or permission of instructor.

HST 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

HONORS

***HON 100 HUMANITIES HONORS I 3 cr.**
Introduction to the humanities by means of an interdisciplinary content drawn from literature, philosophy, theater, music, art, and history.

***HON 101 HUMANITIES HONORS II 3 cr.**
Continuation of HON 100.

HON 107 MACRO PHYSICAL SCIENCE 3 cr.
An introduction to motion and energy, astronomy, thermodynamics, and sound. Students will construct laboratory apparatus from readily available sources to make measurements. This general education course is particularly suitable for elementary education majors. Offered in Fall semester.

HON 108 MICROPHYSICAL SCIENCE 3 cr.
An introduction to the atom, chemistry, electricity and magnetism, and light. Students will construct laboratory apparatus from readily available sources to make physical measurements. This general education course is particularly suitable for elementary education majors. Offered in Spring semester.

HON 200 RESEARCHING CONTEMPORARY ISSUES 3 cr.
This course focuses on a series of case studies drawn from recent events of local, national and international importance, with an emphasis on interdisciplinary research methods.

HON 301 FIELD WORK IN THE NATURAL AND SOCIAL SCIENCES 3 cr.
In this course, students work individually and collaboratively on field-based research projects in the natural or social sciences. Regularly cross-listed with ANH 301, ANH 410, and GEL 330. Prerequisites: HON 100, 101, and 200.

HON 497 INDEPENDENT STUDY (SENIOR PROJECT) 1 - 3 cr.
A full-length project in a student's major, involving the perspective of at least one other academic discipline. The project is supervised by a professor chosen by the student in collaboration with the Honors director. The project may be of a research, experimental, or performance nature and will be geared towards a formal presentation of its results to the students and faculty of the Honors Program. May be taken for one through three credits.

JOURNALISM

JN 100 JOURNALISM 3 cr.
Fundamentals of reporting, editing, and writing feature articles. Emphasis on news evaluation, style, and structures of news stories.

JN 200 CRISIS REPORTING 3 cr.
Critical examination of the way major current issues are handled by the various media. Practice in writing, investigating, and interviewing. Prerequisite: JN 100.

JN 210 MEDIA DESIGN 3 cr.
Studies the principles of newspapers, magazine, book, and television design. Practice in designing pages for the print media and in writing copy for programs for the electronic media. Prerequisite: JN 100.

JN 249 CRIMINAL JUSTICE AND THE PRESS 3 cr.
Instruction in reporting police news. Emphasis will be given to the examination and evaluation of the contrasting viewpoints of reports, law enforcement officials, and the accused in the development and content of news stories. Prerequisite: CJA 100 and PSC 101.

JN 310 INTERPRETATIVE JOURNALISM 3 cr.
Examines the content, style, and techniques of contemporary interpretative news reporting propaganda, ethics, and editorial columns. Practice in writing interpretative articles. Prerequisite: JN 100.

JN 320 CREATIVE JOURNALISM 3 cr.
Introduces the theory and practice of the New Journalism. Students will explore the culture and resources of the region, gathering materials for publishable articles. Prerequisite: JN 100.

JN 330 PRESS PERFORMANCE 3 cr.
Evaluates the role of the contemporary American press in a modern democracy. Such problems as violence, sensationalism, and political bias will be investigated. Prerequisite: JN 100.

JN 495 INTERNSHIP 1 - 12 cr.
An "internship" or work with local newspaper. Practice working on a publication, with attention given to the student's journalistic interest (news reporting, photography, editing) and the major aspects of production. May be taken for one through twelve credits. Prerequisite: JN 100.

MATHEMATICS

MA 090 BASIC ALGEBRA 3 cr.
Introduction to basic algebra. Topics include real numbers, linear equations, formulas, exponents, polynomials, factoring, rational expressions and equations, graphing, systems of equations, radicals, word problems, and applications. DOES NOT COUNT TOWARD GENERAL EDUCATION OR TOTAL CREDITS NEEDED FOR GRADUATION.

MA 104 INTERMEDIATE ALGEBRA 3 cr.
Topics include factoring, algebraic functions, exponents and radicals, linear and quadratic equations, inequalities, linear systems, graphic techniques and word problems. Prerequisite: MA 090 or equivalent. THIS COURSE IS NOT APPROVED FOR GENERAL EDUCATION CREDIT.

MA 115 SURVEY OF MATHEMATICAL IDEAS 3 cr.
A liberal arts course designed to acquaint the student with the nature and scope of modern mathematics. Emphasis is on concepts and understanding rather than the acquisition of technique. Topics included are suitable for the non-science liberal arts student. No extensive background in algebra is required.

MA 117 MATHEMATICS AND CULTURE 3 cr.
Readings and discussions about mathematics and mathematicians. Designed to introduce the student to the role of mathematics in culture. This is not a course in practical mathematics; it is not designed to improve mathematical skills. It attempts to give a better understanding of what mathematics is and if it is important. In doing this students will frequently be involved in discussions of the closely related fields of history, science, and philosophy.

MA 125 INTRODUCTORY STATISTICS 3 cr.
A survey of basic statistical methods for analyzing data. Topics include descriptive statistics, probability, sampling, point and interval estimation, hypothesis tests, linear regression, correlation, and non-parametric tests.

MA 126 STATISTICAL COMPUTING AND APPLICATIONS 3 cr.
This course will explore interesting data intensive applications through statistical computerized analysis. The course will apply concepts studied in ma 125, introduction to statistics, and use computer software to conduct data manipulation and analysis. Prerequisites: MA 125 or 314.

MA 127 INTRODUCTION TO COMPUTER PROGRAMMING 3 cr.
Fundamentals of programming applied to the university computer. Use of computer language to solve practical problems pertinent to science, business, and other disciplines. Laboratory includes use of the terminals and the university computer.

MA 129 FINITE MATHEMATICS 3 cr.
An initial treatment of those topics in basic mathematics that are of special importance in business and the social sciences. Topics included are logic, sets and counting techniques, probability, mathematical models, linear equations and inequalities, introduction of linear programming, and matrices, also Markov Chains and Game Theory.

MA 165 PRE-CALCULUS MATHEMATICS 3 cr.
Intended to prepare students for the study of calculus. Topics include functions, graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry. Prerequisite: MA 104 or equivalent.

MA 170 FUNDAMENTAL CONCEPTS OF CALCULUS 3 cr.
The fundamental concepts of calculus is for non-physical science majors utilizing the basic techniques of differential and integral calculus. Not available to students who have completed MA 231. Prerequisite: MA 104 or equivalent.

MA 180 PROGRAMMING FOR THE MATHEMATICAL SCIENCES 3 cr.
Basic concepts of applications and approximations of the ideas of limit, continuity, and differentiability. Also, the standard concepts of applied mathematics such as error analysis, polynomial interpolation, and solution of linear and nonlinear equations. The computer will be used as an aid to investigating these areas. Prerequisite: MA 170 or 231.

MA 202 QUANTITATIVE REASONING 3 cr.
This course will focus on quantitative reasoning skills, critical thinking, and mathematical communication skills through active learning and use of appropriate technology. The topics include deductive and inductive reasoning, ratios and percentages, functions, proportional reasoning, graphing, selected statistical concepts, sampling probability, and decisions under uncertainty.

MA 203 TOPICS IN ALGEBRA AND GEOMETRY 3 cr.
A study of the basic ideas and structure in modern arithmetic, algebra, and geometry.

MA 231 CALCULUS I 4 cr.
The purpose of this course is to develop a good understanding of the derivative and its uses, to introduce the definite integral, and to establish the important relationship between the derivative and the definite integral. This course is intended for mathematics, science, and engineering majors. Prerequisite: MA 165 or placement by the mathematics department.

MA 232 CALCULUS II 4 cr.
This is a continuation of 231 and is intended to develop a good understanding of the definite integral and its uses, and to develop basic integration techniques. Differential equations, Taylor polynomials, and series are also covered. Prerequisite: MA 231 or equivalent.

MA 233 CALCULUS III 4 cr.
This is a continuation of 232 and the purpose of this course is to investigate functions of two or more variables. Topics include graphing functions of two or more variables, partial derivatives, vectors, optimization, double and triple integrals, and line and surface integrals. Prerequisite: MA 232 or equivalent.

MA 260 DISCRETE STRUCTURES 3 cr.
Foundations of mathematics, emphasizing fundamental concepts in abstract mathematics and deductive reasoning. Topics will include logic, Boolean algebra, sets, functions, relations, cardinality, number systems, abstract systems, and algorithms. Prerequisite: MA 231.

MA 280 LINEAR ALGEBRA AND MATRIX THEORY 3 cr.
Topics: geometry of vectors, matrix algebra and operations, solutions of general systems of linear equations, inversion of matrices, determinants, vectors and vector spaces, subspaces, linear independence, bases and dimension, linear transformations, characteristics roots and vectors, and applications. Prerequisite: MA 232.

MA 301 SURVEY OF MATHEMATICAL MODELS 3 cr.
A survey of different math models, some deterministic and some stochastic, requiring no calculus background, designed to show non-trivial applications. Computer use is emphasized. Prerequisite: MA 125, 127, 129 or 180.

MA 304 HISTORY AND PHILOSOPHY OF MATHEMATICS 3 cr.
A study of the chronological development of facets of mathematics that have contemporary importance. The historical and philosophical background of each facet is integrated with experience in mathematical study and application. Emphasis is placed on great contributors of mathematics, their contributions, and their methods of reasoning. Prerequisite: MA 260.

MA 308 OPERATIONS RESEARCH 3 cr.
Examines the development and use of the techniques of research. Topics include linear programming, queuing theory, probabilistic inventory models, and simulation. Prerequisite: MA 232, 260, 280.

MA 310 NUMERICAL ANALYSIS 3 cr.
A study of numerical methods for the solution of algebraic, transcendental, and differential equations, numerical integration and differentiation, and error analysis. Prerequisite: MA 127 or 180, 232.

MA 311 DIFFERENTIAL EQUATIONS I 3 cr.
Techniques for solving ordinary differential equations, superposition principle, existence and uniqueness theorem, applications. Prerequisite: MA 232 233 (may be taken concurrently).

MA 312 DIFFERENTIAL EQUATIONS II 3 cr.
Additional work in partial differential equations and boundary value problems, numerical methods, qualitative treatment of differential equation in phase plane, stability issues. Prerequisite: MA 311, 233 280 (may be taken concurrently).

MA 314 APPLIED PROBABILITY AND STATISTICS 3
An introduction to applications of descriptive and inferential statistics and probability. Frequency distributions, measures of location and variation, probability, expected value, and decision making; probability distributions, sampling and sampling distributions; inferences concerning means, standard deviations, and proportions; analysis of variance, non-parametric methods, regression, correlation, planning surveys and experiments. Prerequisite: MA 170 or 232.

MA 315 APPLIED REGRESSION ANALYSIS 3 cr.
Simple and multiple regression will be used to analyze data. Residual analysis, indicator variables, and step-wise and polynomial regression. Computer software will be used to analyze data. Prerequisite: MA 125 or 314.

MA 324 APPLIED MATHEMATICS 3 cr.
Illustrates the principles and basic styles of thought in solving physical problems by mathematical methods. Particle dynamics, heat and fluid flow, wave equations, vector, Fourier and tensor analysis. Prerequisite: MA 232, 280.

MA 329 MODERN GEOMETRY I 3 cr.
An introduction to the foundations of geometry with emphasis on the axiomatic development of the Euclidean system. Prerequisite: MA 260.

MA 330 MODERN GEOMETRY II 3 cr.
The foundations of geometry with emphasis on non-Euclidean axiomatic structures. Prerequisite: MA 329 or permission of instructor.

MA 332 APPLIED COMBINATORICS 3 cr.
Applied discrete mathematics emphasizing combinatorics and graph theory. Topics will be chosen from counting methods, generating functions, recurrence relations, inclusion-exclusion, the polya enumeration formula, graph theory, covering circuits, trees, and searching and network algorithms. Prerequisite: MA 231.

MA 335 NUMBER THEORY 3 cr.
An analytical study of basic concepts including divisibility, congruence, quadratic reciprocity and Diophantine equations. Varied methods are stressed. Prerequisite: MA 232, 260.

MA 345 REAL ANALYSIS I 3 cr.
The real number system. Emphasis on the concepts and theoretical approach to calculus: functions, sequences, series, limits, continuity, derivatives, the Riemann integrals, and sequences of functions. Prerequisite: MA 233, 260.

MA 346 REAL ANALYSIS II 3 cr.
A continuation of 345. Prerequisite : MA 345

MA 348 COMPLEX VARIABLES 3 cr.
A first course in complex variables. Complex numbers, analytic functions, elementary functions, mappings by elementary functions, integrals, power series, residues, poles, and conformal mappings. Prerequisite: MA 233.

MA 361 MODERN ALGEBRA I 3 cr.
Sets, rings, integral domains, fields, groups, polynomials, congruences, algebra or classes, mappings, homomorphisms and isomorphisms. Prerequisite: MA 180 or permission of instructor.

MA 362 MODERN ALGEBRA II 3 cr.
A continuation of 361 consisting of a more detailed study of groups, rings, ideals, fields, and selected topics. Prerequisite: MA 361.

MA 371 MATHEMATICAL STATISTICS I 3 cr.
Distributions of discrete and continuous random variables, expected values and moments, conditional probability and independence, special discrete and continuous distributions. Prerequisite: MA 233.

MA 372 MATHEMATICAL STATISTICS II 3 cr.
Interval estimation, order statistics, point estimation, tests of hypotheses. Prerequisite: MA 371.

MA 381 TOPOLOGY 3 cr.
Introduction to point-set topology. Set theory, metric spaces, topological spaces, connectedness, and compactness. Prerequisite: MA 232, 260.

MA 401 SELECTED TOPICS 3 cr.
Selections from topology, algebra, real analysis, matrix theory, computer science or other junior or senior level topics. Active participation by the student is required. Prerequisite: permission of instructor.

MA 402 SEMINAR 1 - 3 cr.
Papers from the American Mathematical Monthly, comparable journals, and various references will be presented and discussed by the students. Continuous reading and participation will be required. May be taken for a total of six credits. Prerequisite: Permission of instructor.

MA 450 INTERNSHIP 3 - 12 cr.
Provides pre-professional skills to interested majors. Business, industry, educational or research work are examples of areas in which students can bring together academic training and practical experience. May be taken for three through twelve credits. DOES NOT COUNT TOWARD THE MATH MAJOR.

MA 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

MUSIC - APPLIED

MAP 101 VOICE CLASS I 1 cr.
Develops proper vocal production, poise, and confidence in solo singing. Remedial work for individual problems.

MAP 102 VOICE CLASS II 1 cr.
Continuation of MAP 101. Prerequisite: MAP 101.

MAP 103 ADVANCED VOICE CLASS 1 cr.
Instruction in voice will be given on a level beyond MAP 101 and 102. Goals of the course: to improve technique, quality, and artistry of individual voices; and to focus class attention on common vocal problems and their remediation.

MAP 111 INTRODUCTION TO THE PIANO 1 cr.
Designed to give non-music majors with no previous keyboard experience an opportunity to learn the very basics of piano playing.

MAP 112 BEGINNING PIANO CLASS 1 cr.
Remedial piano study for those unable to meet entrance requirements.

MAP 113 CLASS PIANO I 1 cr.
For the student with limited piano skill. Prerequisite: ability to perform with reasonable fluency at least five pieces from the last pages of any standard first grade instruction book (such as Thompson, Schaum, Fletcher, Kasschau, et al.), and to play at sight pieces from the first half of a similar book.

MAP 114 CLASS PIANO II 1 cr.
Designed for the music major who might reach the level of skill required by the first proficiency examination. May be taken for a total of three credits. Prerequisite: MAP 113.

MAP 115 ADVANCED PIANO CLASS 1 cr.
Designed for the music education vocal concentration major. Development of advancing piano skills to reach the level of the Third Proficiency. Prerequisite: Passing of the First Proficiency Examination or audition.

MAP 131 WOODWIND CLASS I 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the flute and clarinet; study of the literature appropriate for beginning class instruction.

MAP 132 WOODWIND CLASS II 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the saxophone, oboe, and bassoon; study of the literature appropriate for beginning class instruction.

MAP 133 ADVANCED WOODWIND CLASS 1 cr.
Instruction in woodwind instruments on a level beyond that of the beginning courses. Introduces more scales, more advanced work with embouchure, tone, tonguing. Suitable literature for the various instruments.

MAP 141 BRASS CLASS I 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the trumpet and horn; study of the literature appropriate for beginning class instruction.

MAP 142 BRASS CLASS II 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the trombone, euphonium, and tuba; study of the literature appropriate for beginning class instruction.

MAP 143 ADVANCED BRASS CLASS 1 cr.
Instruction in brass instruments on a level beyond that of the beginning courses. Scales in various articulations and ranges, more advanced technical work and styles, suitable literature for the various instruments.

MAP 151 STRING CLASS I 1 cr.
Acquaints the non-string player with the basic elements of string instrument playing. Instruction in various instruments, fundamentals of correct playing, and familiarity with problems of class instruction in typical elementary school string classes.

MAP 152 STRING CLASS II 1 cr.
Continuation of 151. Students specialize on violin, viola, cello, or bass. Presents keys up to four sharps and two flats with corresponding fingering problems. Introduces bass players to various positions, and cello players to extended second finger pattern. Introduces various staccato bowing patterns. Violin and viola students practice simple third position exercises. Principles of vibrato presented.

MAP 153 ADVANCED STRING CLASS 1 cr.
Instruction in stringed instruments on a level beyond that of the beginning courses. Introduces scales in various positions, more advanced work with the various staccato and spiccato bowings. Suitable literature for the various instruments.

MAP 157 GUITAR CLASS I 1 cr.
Beginning study of the guitar. Functional use of the guitar in the music classroom. Accompanying singing.

MAP 158 GUITAR CLASS II 1 cr.
Continuation of 157. More advanced work in techniques and corresponding literature.

MAP 161 PERCUSSION CLASS 1 cr.
Studies the characteristics for the various percussion instruments; performance techniques: development of performing ability necessary to teach the percussion instruments at the elementary and secondary level of instruction.

MAP 163 ADVANCED PERCUSSION CLASS 1 cr.
Instruction in percussion instruments on a level beyond that of the beginning course. Introduces more advanced work with the various percussion instruments. Suitable literature for various instruments.

MAP 200 VOICE SECONDARY 1 cr.
Voice secondary - ° hour lesson

MAP 210 PIANO SECONDARY 1 cr.
Piano secondary - ° hour lesson

MAP 220 ORGAN SECONDARY 1 cr.
Organ secondary - ° hour lesson

MAP 225 HARPSICHORD SECONDARY 1 cr.
Harpsichord secondary - ° hour lesson

MAP 230 FLUTE SECONDARY 1 cr.
Flute secondary - ° hour lesson

MAP 231 OBOE SECONDARY 1 cr.
Oboe secondary - ° hour lesson

MAP 232 CLARINET SECONDARY 1 cr.
Clarinet secondary - ° hour lesson

MAP 233 BASSOON SECONDARY 1 cr.
Bassoon secondary - ° hour lesson.

MAP 234 SAXOPHONE SECONDARY 1 cr.
Saxophone secondary - ° hour lesson

MAP 240 TRUMPET SECONDARY 1 cr.
Trumpet secondary - ° hour lesson

MAP 241 HORN SECONDARY 1 cr.
Horn secondary - ° hour lesson

MAP 242 TROMBONE SECONDARY 1 cr.
Trombone secondary - ° hour lesson

MAP 243 EUPHONIUM SECONDARY 1 cr.
Euphonium secondary - ˚ hour lesson

MAP 244 TUBA SECONDARY 1 cr.
Tuba secondary - ˚ hour lesson

MAP 250 VIOLIN SECONDARY 1 cr.
Violin secondary - ˚ hour lesson

MAP 251 VIOLA SECONDARY 1 cr.
Viola secondary - ˚ hour lesson

MAP 252 CELLO SECONDARY 1 cr.
Cello secondary - ˚ hour lesson

MAP 253 BASS SECONDARY 1 cr.
Bass secondary - ˚ hour lesson

MAP 254 HARP SECONDARY 1 cr.
Harp secondary - ˚ hour lesson

MAP 257 GUITAR SECONDARY 1 cr.
Guitar secondary - ˚ hour lesson

MAP 260 PERCUSSION SECONDARY 1 cr.
Percussion secondary - ˚ hour lesson

MAP 300 VOICE 1 - 2 cr.
Voice - One-half hour lesson and one fifty-minute group studio class per week.

MAP 310 PIANO 1 - 2 cr.
Piano - One-half hour of lesson and fifty-minute group studio class per week.

MAP 320 ORGAN 1 - 2 cr.
Organ - One-half hour lesson and one fifty-minute group studio class per week.

MAP 325 HARPSICHORD 1 - 2 cr.
Harpsichord - One-half hour lesson and one fifty-minute group studio class per week.

MAP 330 FLUTE 1 - 2 cr.
Flute - One-half hour lesson and one fifty-minute group studio class per week.

MAP 331 OBOE 1 - 2 cr.
Oboe - One-half hour lesson and one fifty-minute group studio class per week.

MAP 332 CLARINET 1 - 2 cr.
Clarinet - One-half hour lesson and one fifty-minute group studio class per week.

MAP 333 BASSOON 1 - 2 cr.
Bassoon - One-half hour lesson and one fifty-minute group studio class per week.

MAP 334 SAXOPHONE 1 - 2 cr.
Saxophone - One-half hour lesson and one fifty-minute group studio class per week.

MAP 340 TRUMPET 1 - 2 cr.
Trumpet - One-half hour lesson and one fifty-minute group studio class per week.

MAP 341 HORN 1 - 2 cr.
Horn - One-half hour lesson and one fifty-minute group studio class per week.

MAP 342 TROMBONE 1 - 2 cr.
Trombone - One-half hour lesson and one fifty-minute group studio class per week.

MAP 343 EUPHONIUM 1 - 2 cr.
Euphonium - One-half hour lesson and one fifty-minute group studio class per week.

MAP 344 TUBA 1 - 2 cr.
Tuba - One-half hour lesson and one fifty-minute group studio class per week.

MAP 350 VIOLIN 1 - 2 cr.
Violin - One-half hour lesson and one fifty-minute group studio class per week.

MAP 351 VIOLA 1 - 2 cr.
Viola - One-half hour lesson and one fifty-minute group studio class per week.

MAP 352 CELLO 1 - 2 cr.
Cello - One-half hour lesson and one fifty-minute group studio class per week.

MAP 353 BASS 1 - 2 cr.
Bass - One-half hour lesson and one fifty-minute group studio class per week.

MAP 357 GUITAR 1 - 2 cr.
Guitar - One-half hour lesson and one fifty-minute group studio class per week.

MAP 360 PERCUSSION 1 - 2 cr.
Percussion - One-half hour lesson and one fifty-minute group studio class per week.

MAP 400 VOICE 3 - 4 cr.
Voice - One-hour lesson and one fifty-minute group studio class per week.

MAP 410 PIANO 3 - 4 cr.
Piano- One-hour lesson and one fifty-minute group studio class per week.

MAP 420 ORGAN 3 - 4 cr.
Organ - 1 hour lesson and one fifty-minute group studio class per week.

MAP 425 HARPSICHORD 3 - 4 cr.
Harpsichord - One-hour lesson and one fifty-minute group studio class per week.

MAP 430 FLUTE 3 - 4 cr.
Flute - One-hour lesson and one fifty-minute group studio class per week.

MAP 431 OBOE 3 - 4 cr.
Oboe - One-hour lesson and one fifty-minute group studio class per week.

MAP 432 CLARINET 3 - 4 cr.
Clarinet - One-hour lesson and one fifty-minute group studio class per week.

MAP 433 BASSOON 3 - 4 cr.
Bassoon - One-hour lesson and one fifty-minute group studio class per week.

MAP 434 SAXOPHONE 3 - 4 cr.
Saxophone - One-hour lesson and one fifty-minute group studio class per week.

MAP 440 TRUMPET 3 - 4 cr.
Trumpet - One-hour lesson and one fifty-minute group studio class per week.

MAP 441 HORN 3 - 4 cr.
Horn - One-hour lesson and one fifty-minute group studio class per week.

MAP 442 TROMBONE 3 - 4 cr.
Trombone - One-hour lesson and one fifty-minute group studio class per week.

MAP 443 EUPHONIUM 3 - 4 cr.
Euphonium - One-hour lesson and one fifty-minute group studio class per week.

MAP 444 TUBA 3 - 4 cr.
Tuba - One-hour lesson and one fifty-minute group studio classes per week.

MAP 450 VIOLIN 3 - 4 cr.
Violin - One-hour lesson and one fifty-minute group studio class per week.

MAP 451 VIOLA 3 - 4 cr.
Viola - One-hour lesson and one fifty-minute group studio class per week.

MAP 452 CELLO 3 - 4 cr.
Cello - One-hour lesson and one fifty-minute group studio class per week

MAP 453 BASS 3 - 4 cr.
Bass - One-hour lesson and one fifty-minute group studio class per week.

MAP 457 GUITAR 3 - 4 cr.
Guitar - One-hour lesson and one fifty-minute group studio class per week.

MAP 460 PERCUSSION 3 - 4 cr.
Percussion - One-hour lesson and one fifty-minute group studio class per week.

MAP 470 RECITAL 2 - 4 cr.
A formal public recital given in the major performing medium represents the culmination of study in the applied area.

MUSIC - ENSEMBLE

MEN 000 RECITAL ATTENDANCE 0 cr.
Recital attendance is to be taken for no credit.

MEN 100 CONCERT CHOIR 0 cr.
A highly select choir of 48 voices. Presents a concert each semester and joins with other choruses for choral festivals. Performs choral literature spanning five centuries and in a variety of languages. The choir is a touring ensemble. Audition required.

MEN 101 FESTIVAL CHORUS 0 cr.
A large mixed chorus providing opportunity to experience great choral literature. Presents a concert each semester and joins other choruses for choral festivals.

MEN 102 OPERA WORKSHOP 0 cr.
Study and performance of operatic and musical comedy scenes chosen according to the abilities of the students in the workshop. Full-scale musical comedy productions done in conjunction with the Department of Speech, Communication, and Theater. Under supervision, students perform in, musically direct, coach, accompany, conduct, and stage-direct various scenes.

MEN 103 MANSFIELDIANS 0 cr.
A vocal jazz/madrigal ensemble. Specializes in singing jazz, madrigal, folk music. Available for performance in public schools, service agencies, and alumni functions. Audition required.

MEN 104 CHAMBER SINGERS 0 cr.
A vocal chamber ensemble of 12 to 16 singers. Specializes in repertoire of the 18th century Madrigal, 19th 20th century part-song, and vocal jazz. Concerts given at the university and off campus by request. Audition required.

MEN 105 VOCAL ENSEMBLE 0 cr.
Studies and performs representative works for various vocal combinations.

MEN 110 PIANO ENSEMBLE 0 cr.
Study and performance of two-piano and four-hand literature, chamber music, sonatas and trios. Accompaniment of standard instrumental and vocal literature.

MEN 130 CONCERT WIND ENSEMBLE 0 cr.
A select ensemble of wind and percussion players. Concerts given on and off campus. Membership is open to all university students by audition.

MEN 131 MOUNTIE MARCHING BAND 0 cr.
(fall semester only). Performs at all home football games and hosts the Mansfield University band day. Performs at out-of-town football games, as well as periodic appearances at professional games, special functions, and international events.

MEN 132 SYMPHONIC BAND 0 cr.
(spring semester only). Studies a wide variety of band literature and presents concerts on campus.

MEN 133 WOODWIND ENSEMBLE 0 cr.
Study and performance of representative works for various woodwind ensembles. One woodwind quintet and one sax quintet take an annual tour.

MEN 134 BRASS ENSEMBLE 0 cr.
Study and performance of representative works for various combinations of brass instruments.

MEN 135 CONCERT JAZZ BAND 0 cr.
Performs several times each year on campus as well as touring and performing concerts off-campus. Membership by audition.

MEN 136 SMALL JAZZ AND COMMERCIAL ENSEMBLES 0 cr.
Provides opportunity for students to gain supervised experience in performing jazz and other current professional music idioms in small groups.

MEN 150 ORCHESTRA 0 cr.
College-Community Symphony. Provides an opportunity to participate in the performance of standard symphonic literature. The orchestra presents a concert each semester, accompanies outstanding student soloists, participates in the biennial choral festival. The choir is a touring ensemble.

MEN 151 STRING ENSEMBLE 0 cr.
Study and performance of standard literature for string ensembles.

MEN 157 GUITAR ENSEMBLE 0 cr.
Introduction of the technique and repertoire of guitar ensemble music and ensemble performance skills.

MEN 160 PERCUSSION ENSEMBLE 0 cr.
Study and performance of representative works for all combinations of percussion instruments.

MEN 300 CONCERT CHOIR 0 - 1 cr.
A highly select choir of forty-eight voices. Presents a concert each semester and joins with other choruses for choral festivals. Performs choral literature spanning five centuries and in a variety of languages. The choir is a touring ensemble. Audition required.

MEN 301 FESTIVAL CHORUS 0 - 1 cr.
A large mixed chorus providing opportunity to experience great choral literature. Students present a concert each semester and join other choruses for choral festivals. May be taken for 0 or 1 credit.

MEN 302 OPERA WORKSHOP 0 - 1 cr.
The study and performance of operatic and musical comedy scenes chosen according to the abilities of the students in the workshop. Full-scale musical comedy productions are done in conjunction with the department of speech, communications and theater. Under supervision, students perform in, musically direct, coach, accompany, conduct, and stage-direct various scenes. May be taken for 0 or 1 credit.

MEN 303 MANSFIELDIANS 0 - 1 cr.
A vocal jazz/madrigal ensemble which specializes in singing jazz, madrigal, and folk music. This group is available for performance in public schools, service agencies, and alumni functions. Audition required.

MEN 304 CHAMBER SINGERS 0 - 1 cr.
A vocal chamber ensemble of twelve to sixteen singers. Specializes in repertoire of the 18th century Madrigal, 19th 20th century part-song, and vocal jazz. Concerts given at the university and off campus by request. Audition required.

MEN 305 VOCAL ENSEMBLE 0 - 1 cr.
Studies and performs representative works for various vocal combinations. May be taken for 0 or 1 credit.

MEN 310 PIANO ENSEMBLE 0 - 1 cr.
Studies and performs two-piano and four-hand literature, chamber music, sonatas, and trios, including accompaniment of standard instrumental and vocal literature. May be taken for 0 or 1 credit.

MEN 330 CONCERT WIND ENSEMBLE 0 - 1 cr.
A select ensemble of wind and percussion players. Concerts given on and off campus. Membership is open to all university students by audition.

MEN 331 MOUNTIE MARCHING BAND 0 - 1 cr.
Performs at all home and out-of-town football games and hosts the Mansfield University band day, as well as periodic appearances at professional games, special functions, and international events. May be taken for 0 or 1 credit.

MEN 332 SYMPHONIC BAND 0 - 1 cr.
Studies a wide variety of band literature and presents concerts on campus. May be taken for 0 or 1 credit.

MEN 333 WOODWIND ENSEMBLE 0 - 1 cr.
Study and performance of representative works for various woodwind ensembles. One woodwind quintet and one sax quintet take an annual tour. May be taken for 0 or 1 credit.

MEN 334 BRASS ENSEMBLE 0 - 1 cr.
Study and performance of representative works for various combinations of brass instruments. May be taken for 0 or 1 credit.

MEN 335 CONCERT JAZZ BAND 0 - 1 cr.
Performs on-campus several times each year, as well as, touring and performing concerts off-campus. Membership by audition. May be taken for 0 or 1 credit.

MEN 336 SMALL JAZZ AND COMMERCIAL ENSEMBLES 0 - 1 cr.
Provides the opportunity for students to gain supervised experience in performing jazz and other current professional music idioms in small groups. May be taken for 0 or 1 credit. Dual listed with 536.

MEN 350 ORCHESTRA 0 - 1 cr.
The College-Community Symphony provides an opportunity to participate in the performance of standard symphonic literature. Our orchestra presents a concert each semester, accompanies outstanding student soloists, participates in the biennial choral festival, and is a touring ensemble. May be taken for 0 or 1 credit.

MEN 351 STRING ENSEMBLE 0 - 1 cr.
Study and performance of standard literature for string ensembles. May be taken for 0 or 1 credit.

MEN 357 GUITAR ENSEMBLE 0 - 1 cr.
Introduction to the technique and repertoire of guitar ensemble music and ensemble performance skills. May be taken for 0 or 1 credit.

MEN 360 PERCUSSION ENSEMBLE 0 - 1 cr.
Study and performance of representative works for all combinations of percussion instruments. May be taken for 0 or 1 credit.

MUSIC - THERAPY

MTH 171 THERAPY ORIENTATION 3 cr.
Studies the nature of music therapy and the therapeutic process. Students will gain a better understanding of the clients served and the types of treatment available.

MTH 210 CLINICAL INTEGRATION I 1 cr.
Students will participate in weekly laboratory experiences on campus and in a clinical setting. Written assignments and a workshop experience are required. Prerequisite: MAP 157, MTH 171, and SPE 101.

MTH 211 CLINICAL INTEGRATION II 1 cr.
Students will participate in weekly lecture/discussion sessions and clinical experiences. Written assignments and a workshop experience are required.

MTH 211L CLINICAL ORIENTATION LABORATORY 1 cr.
Clinical Orientation laboratory. Prerequisite: MTH 171.

MTH 372 PSYCHO-SOCIAL FOUNDATIONS OF MUSIC 3 cr.
Studies the functions of music in society and the psychological attributes of music. Students gain a better understanding of the effects and properties of music in human life. A paper and an oral report are required.

MTH 410 ADVANCED CLINICAL INTEGRATION I 1 - 2 cr.
Provides preparation for advanced clinical work with a wide range of client populations. Provides relevant academic preparation and opportunities to develop clinical skills and to deepen personal awareness. A workshop experience is required. May be taken for 1 or 2 credits, but no more than 4 credits. Prerequisite: MTH 171, 210,. 211, and 211L.

MTH 411 ADVANCED CLINICAL INTEGRATION II 1 - 2 cr.
Provides preparation for advanced clinical work with a wide range of client populations. Provides relevant academic preparation and opportunities to develop clinical skills and to deepen personal awareness. A workshop experience is required. May be taken for 1 or 2 credits not to exceed 4 credits. Prerequisite: MTH 171, 210, 211, and 211L.

MTH 471 INFLUENCE OF MUSIC ON BEHAVIOR 3 cr.
A survey of research in music therapy with a focus on ways music can be employed in the therapeutic process to change problem behaviors. A paper is required.

MTH 472 MUSIC IN THERAPY 3 cr.
Studies the relationships of music therapy to institutional organization and administration, as well as, other therapeutic disciplines. A project/paper is required. MTH 475 INTERNSHIP 2 A practical application of theories of uses of music in therapeutic settings. Choices such as a hospital, state school, correctional facility, public school, special education, and private school may be available.

MUSIC

MU 101 INTRODUCTION TO MUSIC 3 cr.
Studies principal vocal and instrumental forms and media. Surveys important compositions from the early Baroque to the present.

MU 102 FUNDAMENTALS OF MUSIC 3 cr.
The fundamentals of music theory (melody, rhythm, harmony, form, and timbre) are introduced in a "hands-on" practical manner. Activities include analysis of music examples, composition, guided listening, performing, and keyboard theory lab. Music fundamentals will be approached from the standpoints of the listener, the performer, and the composer.

MU 141 INTRODUCTION TO MUSIC EDUCATION 1 cr.
Provides an overview of music education and an acquaintance with the process of teaching and learning music in the elementary and secondary schools.

MU 151 EURYTHMICS I 1 cr.
Laboratory experience in rhythmic movement to develop skill and greater perception of common rhythms. The Jacques Dalcroze philosophy is followed.

MU 201 INTRODUCTION TO JAZZ 3 cr.
Studies the evolutionary history of jazz from the earliest African and European influences to the present. Emphasizes listening experiences and develops an awareness of the unique role of jazz in American culture.

MU 211 BASIC MUSIC I 3 cr.
Development of vocabulary; study of modes, scales, harmonic rhythmic, and composition techniques. Supportive examples selected from all periods of music. Sight singing and dictation.

MU 212 BASIC MUSIC II 3 cr.
Continuation of 211. Analysis and creative projects involving Baroque practices of figured bass, functional harmony, modulation, and altered chords. Prerequisite: MU 211

MU 221 CLASSIC AND ROMANTIC MUSIC 2 - 3 cr.
Surveys Western European musical literature and musical styles of the Classic and Romantic Eras. May be taken for 2 or 3 credits only.

MU 222 POST ROMANTIC AND 20TH CENTURY MUSIC 2 - 3 cr.
Surveys Western European and American musical literature and musical styles beginning with the Post-Romantic Era through main currents of 20th-century composition. May be taken for 2 or 3 credits only. Prerequisite: MU 221 or permission of instructor.

MU 250 BASIC CONDUCTING 1 cr.
Lecture and laboratory experiences with basic conducting techniques. Special emphasis on speaking and moving to rhythms. Students conduct class as a music ensemble.

MU 261 FUNDAMENTALS OF JAZZ IMPROVISATION I 2 cr.
Studies the materials, styles, and techniques of creative and spontaneous jazz performance.

MU 262 FUNDAMENTALS OF JAZZ IMPROVISATION II 2 cr.
Continuation of 261.

MU 263 JAZZ STYLES AND ANALYSIS 3 cr.
In-depth examination and analysis of the stylistic features of the important performers and periods of jazz. Ability to read music required.

MU 301 WORLD MUSICS 3 cr.
Music of various continents are explored with particular emphasis on each tradition's cultural function. Provides the fundamental research and comparative skills needed to understand and listen to selected non-western music. Includes discussions of how Western art and popular music incorporate these styles.

MU 302 INTRODUCTION TO ORIENTAL MUSIC 3 cr.
No course description.

MU 311 BASIC MUSIC III 3 cr.
Studies more elaborate harmonic and formal structures. Examines macro-micro elements in relation to performance practices. Creative and analytic projects based on fugal style, rondo and sonata form, and the art song. Prerequisite: MU 212.

MU 312 BASIC MUSIC IV 3 cr.
Examines contemporary techniques. Examples selected from Debussy to post-1950. Creative projects involving the whole tones and twelve-tone scales, and aleatoric and electronic compositions. Sight singing and dictation to include atonal pitch sets. Prerequisite: MU 311.

MU 313 ELECTRONIC MUSIC I 1 cr.
Survey of electroacoustic music technology with emphasis on MIDI applications. Provides hands-on experience with computer-based sequencing and music notation. Prerequisite: MU 212.

MU 315 ORCHESTRATION 3 cr.
Designed to provide the basic skills of notation, parts extraction, transposing and arranging, in addition to information on instrumental ranges, qualities, and usages. Strings, woodwinds, and brass are treated as distinct families. Provides a fluent understanding of skills and concepts and, as a by-product, the student will become more aware of score reading and audio awareness. Good manuscript habits will make it possible for musicians to read new music and students will be able to use these skills in graduate school. Prerequisite: MU 312 or permission of instructor.

MU 317 KEYBOARD SKILLS I 1 cr.
Intensive work in accompanying melodies in major and minor keys, with beginning work in modal harmony. Development of varied accompanimental styles, improvisation, command of functional harmony, "playing by ear", transposition, sight reading melodies from elementary music, and harmonizing these melodies at sight. Prerequisite: MU 212.

MU 318 KEYBOARD SKILLS II 1 cr.
Continuation of 317. More complex accompanimental styles, secondary dominant chords, improvisation, transposition, "playing by ear," modulatory techniques, sight reading from junior high music series, sight reading melodies and supplying appropriate accompaniment. Prerequisite: MU 317 or equivalent.

MU 321 MEDIEVAL AND RENAISSANCE MUSIC 2 - 3 cr.
Surveys Western European musical literature and musical styles beginning with the early Christian era through the Renaissance. May be taken for 2 or 3 credits only. Prerequisite: MU 221 or permission of instructor.

MU 322 BAROQUE AND PRE-CLASSICAL MUSIC 2 - 3 cr.
Surveys Western European musical literature and musical styles of the Baroque and Pre-classical Eras. May be taken for 2 or 3 credits only. Prerequisite: MU 221 or permission of instructor.

MU 323 STUDIES IN KEYBOARD LITERATURE 3 cr.
Study of keyboard literature from the late Renaissance to the present day.

MU 340 TEACHING MUSIC 3 cr.
Designed to enable elementary education majors to integrate the teaching of music into the mainstream of the elementary school curriculum. Fundamentals of music, musical characteristics of children, concept development, and musical activities appropriate for the age group will be stressed. Includes observation/participation in the local elementary school.

MU 341 MUSIC IN THE ELEMENTARY SCHOOL 2 cr.
Studies the developmental and musical characteristics of children ages 5-11. Emphasizes teaching the elements of music through musical activities appropriate for this age group. Includes a survey of current materials as well as observation/participation in the local elementary school. Particular attention is given to curricular development for vocal and general music classes. Prerequisite: MU 141, 212 and five hours of pre-professional experience.

MU 342 MUSIC IN THE SECONDARY SCHOOL 2 cr.
Studies the developmental and musical characteristics of students ages 12-18. Emphasizes teaching the elements of music through musical experiences appropriate for this age group. Includes a survey of current materials as well as observation/participation in the local secondary school. Particular attention is given to classroom management, students with exceptionalities of all ages, curriculum development in general music classes, elective classes, and an overall philosophy of music education. Prerequisite: MU 341 and five hours of pre-professional experience.

MU 343 INSTRUMENTAL MUSIC IN PUBLIC SCHOOLS 2 cr.
Study of a suitable instrumental program for a public school system. Particular attention to class teaching techniques of the various instruments. Problems of organization and administration of such a program; survey and examination of the available instructional material. Prerequisite: MU 141, 212, 342 and five hours pre-professional experience.

MU 344 VOCAL-CHORAL MUSIC IN THE PUBLIC SCHOOLS 2 cr.
Study of a suitable choral program for a public school system. Particular attention is given to the teaching of voice through the developmental stages of elementary, middle, and high school students. Experience in working with the age group is an important part of the course. Prerequisite: MU 212, 141, 342, 350, and five hours pre-professional experience.

MU 350 CHORAL CONDUCTING 2 cr.
Prepares the future music educator to organize, teach, and conduct choral organizations of varying levels of achievement, particularly junior and senior high school age groups. Experience in conducting the class as a chorus is integral to the course. Prerequisite: MU 212.

MU 351 INSTRUMENTAL CONDUCTING 2 cr.
Prepares for conducting instrumental groups. Emphasis on communicative and control techniques of conducting and rehearsal and performance techniques. Experience through conducting a laboratory band and orchestra. Videotaping is utilized extensively with each individual. Prerequisite: MU 212.

MU 352 DICTION I FOR SINGERS 2 cr.
This course will use the International Phonetic Alphabet (IPA) to present a systematic approach to the pronunciation of vocal literature in Italian, Latin, and German, examining those elements of pronunciation which must be modified from the spoken language into the singing language. The course will require solo and group preparation of songs in each language, including precise translations for foreign language literature and will provide for class criticism and discussion of performance in an effort to develop critical hearing.

MU 353 DICTION II FOR SINGERS 2 cr.
This course will use the International Phonetic Alphabet to present a systematic approach to the pronunciation of vocal literature in English and French, examining those elements of pronunciation which must be modified from the spoken language into the singing language. The course will require solo and group preparation of songs in each language, including precise translations for foreign language literature and will provide for class criticism and discussion of performance in an effort to develop critical hearing.

MU 361 JAZZ ARRANGING I 2 cr.
Studies techniques in arranging for modern jazz ensembles of all sizes.

MU 362 JAZZ ARRANGING II 2 cr.
A more advanced course in the styles and techniques of arranging for modern jazz ensembles of all sizes.

MU 363 JAZZ ENSEMBLE MATERIALS AND TECHNIQUES 2 cr.
Acquaints prospective directors of secondary school performing jazz ensembles with materials and techniques appropriate to the idiom. Highly useful to students interested in amateur or professional jazz ensemble performance outside of educational institutions. Dual listed with 563.

MU 400 STUDENT TEACHING 12 cr.
(By arrangement). Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor. Prerequisite: 2.5 QPA.

MU 410 FORMS AND ANALYSIS 3 cr.
Various methods of musical analysis are studied and applied to compositions representative of various periods of music history. Prerequisite: MU 312.

MU 411 COUNTERPOINT 3 cr.
Studies the contrapuntal style of the late 17th and early 18th centuries. Prerequisite: MU 312.

MU 412 ADVANCED HARMONY 3 cr.
Harmonic techniques of the late nineteenth and early twentieth centuries; interrelationships of harmonic vocabulary and musical form. Prerequisite: MU 312

MU 417 COMPOSITION 3 cr.
Contemporary techniques of musical composition; emphasis on creative work. Prerequisite: MU 312 or permission of instructor.

MU 418 ADVANCED COMPOSITION 3 cr.
Continuation of 417. For students interested in more intensive work than can be provided in 417.

MU 420 SONG LITERATURE 3 cr.
Studies development of monophonic song from the days of the troubadours and troupers to the present time. Emphasizes especially the history of the German lied, the French chanson or melody, and solo song in the British Isles and the United States. Also includes the major composers of song in the Slavic countries, Spain, South America, and Scandinavia.

MU 427 CONTEMPORARY MUSIC 3 cr.
Surveys the styles, forms, and musical techniques of contemporary music.

MU 428 AMERICAN MUSIC 3 cr.
Historical background and development of music in the United States from colonial times to the present. Studies the principal composers and their music. Reading, research, and listening emphasized.

MU 429 ADVANCED STUDIES MUSIC LITERATURE 3 cr.
Intensive study of selected choral, solo, chamber, and orchestral masterpieces: emphasis on formal and stylistic developments. Prerequisite: MU 221, 222, 321, and 322.

MU 431 THE SYMPHONY 3 cr.
Studies orchestral music from its beginning. The Mannheim composers, the Viennese classics, the Romanticists, and contemporary composers. Works will be analyzed and their historical, cultural, and philosophical backgrounds discussed.

MU 432 THE CONCERTO 3 cr.
Emphasizes the development of the concerto and the stylistic contributions of the great masters. Representative works will be studied in score and recordings.

MU 458 BASIC WOODWIND REPAIR 2 cr.
Designed to give the student the knowledge and skills needed to repair the majority of problems encountered on woodwind instruments.

MU 459 MARCHING BAND TECHNIQUES 2 cr.
Detailed study of the marching band including philosophy, styles, charting, music, materials, instrumentation, administration, and contemporary techniques.

MU 471 VOCAL PEDAGOGY 2 - 3 cr.
A study of the teaching of singing on an individual or group basis. Study of the five elements of singing: respiration, phonation, resonation, articulation, and interpretation. An examination of various approaches to voice teaching, including a study of books on voice pedagogy. May be taken for 2 or 3 credits only. Prerequisite: permission of instructor. Dual listed with 571.

MU 472 PIANO PEDAGOGY 2 cr.
Studies procedures for class and individual instruction: emphasizes the ear approach as the basis for reading, true musical perception and intelligent understanding of the printed page. Examines and evaluates materials suitable for the first years of piano study. Prerequisite: permission of instructor.

MU 473 PRACTICUM IN PIANO TEACHING 1 cr.
Introduces class and individual instruction techniques to be used with young beginners. Prerequisite: MU 472.

MU 475 WOODWIND PEDAGOGY 3 cr.
Acquaints students with the woodwind instruments and their solo and ensemble literature. Lecture, demonstration, films, tapes, and recordings presented for flute, oboe, bassoon, clarinet, and saxophone.

MU 476 BRASS PEDAGOGY 3 cr.
Studies the techniques, teaching problems, teaching materials, history, and literature related to the brass instruments.

MU 477 PERCUSSION PEDAGOGY 3 cr.
Studies teaching techniques and associated literature of the various percussion instruments.

MU 481 SURVEY OF THE BUSINESS OF MUSIC 3 cr.
Presents an overall view of music merchandising, describes the various types of retailing, and acquaints the student with the administration, advertising, marketing processes, and consumer orientation necessary for the education of a person in the retail-wholesale aspects of the music industry.

MU 489 INTERNSHIP: MUSIC MERCHANDISING 12 cr.
Provides experiences in the following: (a) a "hands-on experience", (b) an opportunity to observe professionals in the field, (c) a broadening and understanding of problems and careers in the field, (d) an educationally directed field instruction, (e) an opportunity to apply knowledge, theory, and understanding in a job situation, and (f) an opportunity to develop marketable skills.

MU 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

NURSING

NUR 250 INTRODUCTION TO NURSING AND HEALTH CARE I 4 cr.
An introduction to basic concepts of nursing. Focus is on the role and function of the professional nurse within the health care system and provides an overview of the nursing process and the health care needs of the individual adult client. Laboratory experiences are offered in a variety of settings.

NUR 251 INTRODUCTION TO NURSING AND HEALTH CARE II 4 cr.
Builds and focuses on the concepts introduced in 250, assisting the student to further clarify and conceptualize the professional nursing role. The effects of religious, cultural, sociological, and economic events on the development of nursing are examined. Laboratory and clinical experiences are provided in a variety of settings and at all levels of prevention. Prerequisite: NUR 250.

NUR 260 CONCEPTS OF PROFESSIONAL NURSING 3 cr.
A seminar designed to introduce RN students to the theoretical and philosophical bases underlying professional nursing practice. Role theory with an emphasis on the development of the professional self-concept will be explored. Open to RN students only.

NUR 360 INTRODUCTION TO NURSING RESEARCH 3 cr.
Provides an overview of the steps in the research process and the ethical and legal standards involved in scientific inquiry. The purpose, development, and importance of research in the nursing profession is emphasized. In addition, the course provides the knowledge and methods required to critically evaluate research studies and reports. Prerequisite: MA 125, NUR 250 and 251.

NUR 370 NURSING CARE OF THE ADULT CLIENT 8 cr.
Explores the use of the nursing process with adult clients as they encounter actual and potential stressors along with the wellness-illness continuum. The clinical lab provides the student with opportunities to apply the nursing process at all levels of prevention and to observe various roles of the professional nurse within the health care system. Prerequisite: BSC 121, 122, 355, CHM 110, NUR 250 and 251.

NUR 371 NURSING CARE OF CHILDBEARING AND CHILD REARING FAMILIES 8 cr.
Explores the use of the nursing process with individual and family clients. The focus of the role of the nurse in meeting the health care needs of childbearing and child rearing families at all levels of prevention and in a variety of settings. The course content focuses on growth and development, family issues and assessment, the change process, and stressors for and reaction of individuals and families. Prerequisite: BSC 121, 122, 355, CHM 110 and NUR 251.

NUR 380 NURSING PHYSICAL ASSESSMENT 2 cr.
Designed to assist the student in obtaining the cognitive and psychomotor skills to assess individuals as they encounter actual and potential stressors along the wellness-illness continuum. Includes both a classroom and learning laboratory component which incorporates principles of interviewing, comprehensive health history, sequential physical assessment, analysis of collected data and documentation. Prerequisite: BSC 121, 122, 355, CHM 110, NUR 250 and 251.

NUR 390 PHARMACOLOGICAL BASIS FOR NURSING PRACTICE 2 cr.
Utilizes the nursing process to provide a pharmacological basis for nursing practice. Includes discussion of pathophysiological phenomena and pharmacological interventions including pharmacokinetics, pharmacodynamics, and implications for professional nursing practice. Prerequisite: BSC 121, 122, 355, CHM 110, NUR 250 and 251.

NUR 402 WOMEN'S HEALTH ISSUES 3 cr.
Designed to explore and analyze a wide range of women's health issues from a multi disciplinary perspective. It is presented in a seminar format utilizing feminist pedagogy. A high level of student participation is expected.

NUR 420 TEACHING IN NURSING 3 cr.
Examines teaching and learning principles, and educational issues. Students will practice teaching/learning strategies in a nursing education or nursing practice setting. Focus will be on the client or nursing education. Prerequisite: NUR 370 and 371.

NUR 430 COMMUNICATIONS IN NURSING 3 cr.
Provides both theory and classroom experiences with communications in nursing which will support, reinforce, and expand on concepts from previous courses. The acquisition of knowledge and the development of skills which will assist one in becoming more effective in the client-nurse relationship are emphasized. Verbal and non-verbal communication techniques, problem solving, empathy, self-disclosure, confrontation, relaxation, and responsible/assertive communications are some of the topics are examined. Prerequisite: COM 101, NUR 250 and 251.

NUR 453 CREATIVE INTERVENTIONS IN NURSING 3 cr.
Several creative interventions will be defined, described, and studied. These interventions will include humor and laughter, storytelling, music therapy, relaxation therapy, clowning and creative movement. The nursing role and nursing process involved in these interventions will be explored. The nursing student will apply the use of one creative intervention to the clinical setting. Prerequisite: NUR 250, 251, 370 and 371

NUR 454 GERONTICS/NORMAL AGING 3 cr.
Provides both theoretical content and interaction with the well-elderly. Assessing and assisting the aging to maintain wellness will be the major focus. Prerequisite: NUR 250, 251 and SOC 101

NUR 460 CURRENT ISSUES IN PROFESSIONAL NURSING 3 cr.
A seminar which examines current trends, controversies, questions, and dilemmas of professional nursing. The influence of political, ethical/legal, economic, and societal aspects on nursing practice and education are explored. Prerequisite: junior level nursing courses.

NUR 470 NURSING CARE OF THE CLIENT WITH MULTI SYSTEM STRESSORS 9 cr.
Examines the nursing process to care for adult clients and families with acute and multiple health problems which penetrate the lines of resistance. Prerequisite: junior level nursing courses

NUR 471 COMMUNITY HEALTH NURSING 6 cr.
Explores the scope of community health nursing considering the multiple frameworks of nursing theory and process, family theory and practice, and public health principles. Emphasis is placed on studying the relationships between individual, family, and community health care needs. Prerequisite: junior level nursing courses

NUR 472 MENTAL HEALTH NURSING 6 cr.
Focuses on the mental health concepts relative to the nursing care of clients. The nursing process is examined and applied primarily with individuals, but also includes families, groups, and communities and takes place in a variety of settings. Emphasis is placed upon the nurse's role of collaboration with other health care professionals in meeting the health care needs of clients at all levels of prevention. Prerequisite: junior level nursing courses

NUR 477 PATHOPHYSIOLOGICAL BASIS OF NURSING PRACTICE 3 cr.
Examines the major pathophysiological concepts associated with altered states of health. Etiology, pathogenesis and clinical manifestations are used to study common disease processes. The concepts learned in this course are relevant to professional nursing practice. Prerequisite: BSC 121, 122, NUR 250 and 251.

NUR 480 LEADERSHIP AND MANAGEMENT IN NURSING 3 cr.
Introduces the student to the theoretical foundation for the practice of independent and interdependent nursing by discussing current leadership and management concepts and their relevance to professional nursing practice. Prerequisite: junior level nursing courses.

NUR 485 FAMILY NURSING 3 cr.
The concept of family is studied and analyzed in terms of both health and illness. This course emphasizes the nursing process as it applies to the family unit. Students will use the Betty Newman Nursing Model to study selected families. Prerequisite: NUR 251 or 260; NUR 370 or 371.

NUR 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

PHILOSOPHY

PHL 191 ETHICAL ISSUES IN ALLIED HEALTH CARE 3 cr.
Especially designed for individuals pursuing careers in respiratory therapy and radiology technology. Topics include informed consent, paternalism, professional accountability, access to professional services, policy implications and the control of technology, and the benefits of health-care practices. May not be used as a substitute for PHL 380.

***PHL 201 INTRODUCTION TO PHILOSOPHY 3 cr.**
Examines the basic foundational beliefs of people in the religious, scientific, ethical, and political dimensions of life. Exercises the student's ability to identify his/her own basic beliefs and subject these to critical evaluation. Examples of issues discussed are whether ethical values are relative, the existence of God, the nature of justice, and human freedom.

***PHL 202 CONTEMPORARY MORAL PROBLEMS 3 cr.**
Analyzes moral arguments pertaining to difficult contemporary issues, with emphasis on clarifying and evaluating these. Discussion subjects include: abortion, euthanasia, the moral status of animals, the environment, the rights of women and minorities, censorship and pornography, etc. Course goal is to enable the student to assess the strengths and weaknesses of the various positions on each issue. PHL 202 is suitable as an entry level course in Philosophy.

***PHL 230 INTRODUCTION TO LOGIC 3 cr.**
Studies the basic principles of deductive and inductive thinking. Includes informal as well as formal logic. Syllogistic reasoning and elementary symbolic logic may be introduced. Fallacies in advertising, statistical arguments, political campaigns, and everyday speech are examined.

***PHL 280 PHILOSOPHY OF RELIGION 3 cr.**
Analyzes the validity of various proofs of God's existence. Also examines religious language, the difference between faith and reason, the question of religious authority, and the reasonableness of the religious lifestyle. Prerequisite: PHL 201, 202 or permission of instructor.

***PHL 300 PHILOSOPHY OF THE ARTS 3 cr.**
A detailed survey of both classical and modern aesthetic theories along with a criticism of each. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 305 PHILOSOPHY AND FILM 3 cr.
Aesthetic, ethical and epistemological issues surrounding the moving image. Topics include: realism, neo-realism, the new wave, feminism and the influence of existential and Marxist philosophies on cinematic theory. Prerequisite: PHL 201, 202, or permission of instructor.

PHL 310 SOCIAL AND POLITICAL PHILOSOPHY 3 cr.
An analysis of philosophical concepts and arguments presupposed in social and political discourse. Topics include: liberty and its limits, human rights, economic and social justice, the nature of political obligation and disobedience. Emphasis is on evaluating philosophical theories from both contemporary and historical sources: Prerequisite: PHL 201, 202 or permission of instructor.

PHL 320 PHILOSOPHY OF LAW 3 cr.
An analysis of philosophical concepts and arguments presupposed in legal discourse and reasoning. Topics will include: the nature of law and legal decision making; theories of justice, privacy, responsibility and punishment. Emphasis is on examining specific legal cases from both contemporary and historical sources. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 330 EASTERN APPROACHES TO REALITY 3 cr.
An examination of the philosophical perspective of the Eastern mind as exhibited in Hinduism, Buddhism, Taoism, Confucianism, Zen Buddhism. Primary focus is on the difference between the Eastern and Western modes of looking at the world. Prerequisite: PHL 201, 202 or permission of instructor.

***PHL 340 ETHICS 3 cr.**
Examines how to make rational decisions in situations with a moral dimension. Examines traditional and contemporary applied problems in ethics, e.g. sexual morality, cheating. Examines the moral implications of various lifestyles. Course goal is to assist students in developing the ability to function as morally autonomous persons. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 345 AMERICAN PHILOSOPHY 3 cr.
Examines the main movements in American thought, especially the pragmatic. Course focus is on the relation between American philosophy and other aspects of the American experience and character. Classical and contemporary figures are treated. Examines specifically American thought outside of academic philosophy, e.g. in economics, literature, and psychology. prerequisites: PHL 201, 202 or permission of instructor.

PHL 350 THE CONCEPT OF MIND 3 cr.
Investigates various philosophical theories concerning the nature of mind. Topics include: the possibility of artificial intelligence, the nature of consciousness, emotion, and imagination, dreaming, mind-brain identity, the concept of the unconscious, animal intelligence, the mind as program, and human freedom. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 360 THE CONCEPT OF KNOWLEDGE 3 cr.
An examination of some philosophical concepts and arguments presupposed in discourse about knowledge. Topics include: the possibility that we do not know anything; problems of perception and illusion; problems of evidence acquisition; the nature of scientific knowledge; skepticism; astrology and religion; recent research in cognitive science. Major philosophical theories from both contemporary and historical sources are utilized. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 365 SCIENCE AND VALUES 3 cr.
Examines problems raised by science and technology. Topics will include: the ethics of experimentation; racism and sexism in science; the limits to technological growth; ecological and nuclear disaster; creationism versus evolutionism; ugliness and beauty in a technological environment. This course is geared to both specialists and non-specialists in philosophy or science. Prerequisite: PHL 201, 202, or permission of instructor.

PHL 370 PHILOSOPHY OF LANGUAGE 3 cr.
An examination of the logical structures of descriptive and nondescriptive linguistic activities. Emphasis is on the picture theory of representational language as presented in Ludwig Wittgenstein's Tractatus Logico-Philosophicus. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 380 HEALTH CARE ETHICS 3 cr.
An examination of the arguments designed to provide solutions to moral problems commonly faced by health care professionals. Topics will include: lies to the sick and dying; abortion; euthanasia and the treatment of defective newborns; privacy and confidentiality; suicide intervention; paternalism and limiting liberty; allocation of scarce health care resources; strikes for better wages and working conditions; experimenting with human subjects; nurse/physician and nurse/client relationships; moral decision-making. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 390 EXISTENTIALISM 3 cr.
Analyzes this twentieth-century movement which emphasizes human uniqueness and value. Existential themes include freedom, commitment, self-determination, and authenticity. Major philosophers considered are Keirkegaard, Nietzsche, Heidegger, and Sartre. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 420 CLASSICAL GREEK PHILOSOPHY 3 cr.
A serious investigation of Western philosophy from the beginning through Aristotle. The relationships between philosophy and other areas of Greek culture are examined. Extended treatments of the pre-Socratics, Plato, and Aristotle are presented. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 422 TOPICS IN MODERN PHILOSOPHY 3 cr.
Includes study of the philosophical thought of the early scientists whose investigations culminated in the contemporary scientific method. Philosophers of the 17th and 18th centuries are examined, from Thomas Hobbes to Immanuel Kant. Problem areas of this period are: the mind-body relationship, the possibility of knowledge, perception, and the status of ideas. Prerequisite: PHL 201, 202, or permission of instructor.

PHL 423 TWENTIETH CENTURY PHILOSOPHY 3 cr.
Analysis of the defining features of major philosophical movements in the twentieth century. The movements which may be examined include linguistic analysis, logical positivism, pragmatism, deconstruction, philosophy of mind, postmodernism, postcolonialism,, and feminism. Prerequisite: PHL 201, 202, or permission of instructor.

PHL 450 INTERNSHIP 12 cr.
Information can be obtained from Philosophy chairperson. NO MORE THAN SIX CREDITS COUNT TOWARD THE PHILOSOPHY MAJOR.

PHL 490 SEMINAR 1 - 3 cr.
A supervised investigation of a specialized problem in philosophy or into the writings of a specific philosopher or philosophic movement. Prerequisite: PHL 201, 202, or permission of the instructor. May be taken for 1 through 3 credits.

PHL 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

PHYSICS

***PHY 104 FORENSIC SCIENCE 3 cr.**
Forensic science is the application of science to law. this course will study the collection and identification of materials used as evidence. This will include an understanding of their physical and chemical nature and origins at the crime scene. Further, the student will utilize the collected evidence to suggest scenarios for crime scenes.

***PHY 107 MACRO PHYSICAL SCIENCE 3 cr.**
An introduction to astronomy, forces and motion, and energy. Students will construct laboratory apparatus from readily available sources to make physical measurements. This general education course is particularly suitable for elementary education majors.

***PHY 108 MICRO PHYSICAL SCIENCE 3 cr.**
An introduction to the atom, chemistry, electricity and magnetism, sound, and light. Students will construct laboratory apparatus from readily available sources to make physical measurements. This general education course is particularly suitable for elementary education majors.

***PHY 151 CONCEPTUAL PHYSICS I 4 cr.**
An introduction to both classical and modern physics without the use of calculus. Designed to enable the student to appreciate the role of physics in society.

***PHY 152 CONCEPTUAL PHYSICS II 4 cr.**
Continuation of PHY 151.

PHY 165 PHYSICS FOR THE ALLIED HEALTH SCIENCES 3 cr.
Designed to give students in the Allied Health Sciences the physics background needed for their professional work. Selection of material is based on the appropriateness of the life sciences without limiting basic concepts found in all introductory physics courses.

PHY 180 QUANTITATIVE METHODS FOR THE PHYSICAL SCIENCES 3 cr.
Introduction to the application of mathematical analysis to physical situations. Problem solving using algebraic, statistical, calculus, and computer methods.

PHY 191 PHYSICS I 4 cr.
A one-year sequential calculus physics course discussing classical mechanics, fluids, thermodynamics, classical electricity and magnetism, optics and waves, modern physics. Application of physics to life science is made in problem selection and laboratory experimentation.

PHY 192 PHYSICS II 4 cr.
Continuation of PHY 191. Prerequisite: PHY 188 and 191.

***PHY 210 GENERAL PHYSICS I 4 cr.**
A calculus based, introductory physics course emphasizing classical concepts. Selected topics include: motion, work and energy, gravitation, electricity and magnetism, and electromagnetic waves. Prerequisite: MA 231. Co-requisite: MA 232.

***PHY 211 GENERAL PHYSICS II 4 cr.**
Continuation of PHY 191 or 210.

PHY 311 MODERN PHYSICS I 3 cr.
An introduction to 20th century physics, including the structure of atoms and nuclei, basic ideas of quantum mechanics and solid state theory. Prerequisite: PHY 210 and 211.

PHY 312 MODERN PHYSICS II 3 cr.
Continuation of PHY 311.

PHY 313 PHYSICAL MECHANICS I 3 cr.
An analytic treatment of classical mechanics covering the methods of statics and dynamics of rigid bodies with application to physical problems; small oscillations, generalized coordinates and Lagrange's equations. Prerequisite: MA 233 and 311, PHY 210.

PHY 314 PHYSICAL MECHANICS II 3 cr.
Continuation of PHY 313.

PHY 315 ANALOG ELECTRONICS 4 cr.
The basics of analog electronics will be discussed and explored in the lab. Topics covered include: Kirchoff's laws, Thevennin equivalent circuits, time varying signals, filters, diodes, transistors, and amplifiers. Prerequisite: PHY 211. Co-requisite MA 311.

PHY 316 DIGITAL ELECTRONICS 4 cr.
The basics of digital electronics will be discussed and explored in the lab. Topics covered include: binary systems, boolean algebra and logic gates, information registers, memory circuits, and digital microprocessors.

PHY 317 PHYSICAL OPTICS 3 cr.
Wave phenomena, electromagnetic theory of light, interference, diffraction, polarization and nonlinear optics. Prerequisite: MA 311 and PHY 212.

PHY 318 THERMODYNAMICS 3 cr.
An introduction to thermal physics and kinetic theory. Prerequisite: MA 311 and PHY 212.

PHY 319 INTRODUCTION TO SOLID STATE PHYSICS 3 cr.
A brief summary of the theory underlying the behavior of solids. Emphasis on transport theory, interaction of light and matter, semiconductor devices, superconductors and lasers. Prerequisite: PHY 311.

PHY 321 SELECTED TOPICS I 3 cr.
Any selected topic not sufficiently covered in a general course.

PHY 322 SELECTED TOPICS II 3 cr.
See PHY 321.

PHY 401 ELECTRICITY AND MAGNETISM I 3 cr.
Foundations of electromagnetic theory including electrostatics, dielectric theory, magnetic properties. Prerequisite: MA 233, 311 and PHY 211.

PHY 402 ELECTRICITY AND MAGNETISM II 3 cr.
Continuation of PHY 401.

PHY 407 INTRODUCTION TO QUANTUM MECHANICS 3 cr.
An introduction to wave mechanical and axiomatic approaches with simple applications. Prerequisite: MA 311 and PHY 311.

PHY 408 ATOMIC AND NUCLEAR PHYSICS 3 cr.
Continuation of PHY 407; physical applications of quantum mechanics to atomic and nuclear physics.

PHY 415 PHYSICS RESEARCH I 3 cr.
Undergraduate physics research project initiated by the student and completed in conjunction with a faculty member. Permission of the instructor required.

PHY 416 PHYSICS RESEARCH II 3 cr.
Undergraduate physics research project initiated by the student and completed in conjunction with a faculty member. Prerequisite: PHY 415 and permission of the instructor.

PHY 450 CURRENT SCIENTIFIC PHENOMENA 1 - 3 cr.
This course permits students to take advantage of important temporary phenomena. Thus credit hours, period and time of presentation, and instructional personnel must vary. Selection of topics will be based upon intrinsic value and interest as well as importance for other courses. May be taken for 1 through 3 credits not to exceed 6 credits.

PHY 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

POLITICAL SCIENCE

***PSC 100 INTRODUCTION TO POLITICS 3 cr.**
Examines major concepts, institutions, processes, actors, and issues in modern politics. Emphasis is on universal trends and themes. Required of majors

PSC 102 STATE AND LOCAL POLITICS 3 cr.
Examines political principles and processes, governmental institutions, and mechanics of governing the states and their local unites.

***PSC 201 AMERICAN POLITICS 3 cr.**
Examines political principles and processes, governmental institutions and mechanics of governing in the United States.

***PSC 204 STATE AND LOCAL POLITICS 3 cr.**
Examines political principles and processes, governmental institutions, and mechanics of governing the states and their local units.

***PSC 210 WORLD POLITICS 3 cr.**
Examines international relations in our time. Emphasis is on the goals and behaviors of nation-states, the policies of important countries, the causes of regional conflicts, and the search for peace, security, order and justice.

PSC 212 COMPARATIVE POLITICS 3 cr.
Examines the governments and politics of representative nations. Emphasis is on political cultures, processes, institutions, and policies, as well as forces creating consensus and conflict, stability, and instability.

PSC 235 RESEARCH METHODS 3 cr.
Examines both the subject matter of political science as a discipline and associated research methods. Emphasis is on preparation and evaluation of a research project.

***PSC 301 PARTICIPATION AND ELECTIONS 3 cr.**
Examines the roles of social and political institutions in shaping participation and voting behavior, as well as the ways individuals acquire political knowledge, attitudes and opinions.

***PSC 312 CANADA, MEXICO AND THE U.S. 3 cr.**
Explores the political systems of Canada, Mexico, and the U.S. as well as relations among them. Highlights political cultures, institutions, processes, policies and controversies. Pays special attention to NAFTA.

PSC 324 ADMINISTRATION OF JUSTICE 3 cr.
A survey of America's court system which examines the judicial system's structure, it's functions, procedures, processes and significant actors as they operate within our society.

PSC 328 POLITICAL ECONOMY 3 cr.
Examines the relationship between politics and economics in modern society. Emphasis is on democracy and capitalism in America, and on the role of government in the U.S. economy.

PSC 330 PUBLIC POLICY 3 cr.
Examines the public policy process from issue creation to policy adoption. Focuses on the politics of the policy making process.

***PSC 333 MODERN IDEOLOGIES 3 cr.**
Examines the development and impact of modern ideologies from the French Revolution to the present. Emphasis is on liberalism, conservatism, socialism, anarchism, nationalism, and less prominent variations of these.

***PSC 402 PRESIDENT AND CONGRESS 3 cr.**
Examines the Executive and Congress as both governmental and political institutions, as well as the ongoing relationship between them.

PSC 404 COURTS AND THE CONSTITUTION 3 cr.
Examines general principles of the U.S. constitutional system and the role of the judiciary in interpreting individual rights.

PSC 412 TOPICS IN COMPARATIVE POLITICS 3 cr.
Examines in depth the government and politics of a particular country or group of countries (e.g. Canada, Communist systems, developing countries, the European Community).

PSC 415 U S FOREIGN POLICY 3 cr.
Examines the content and process of U.S. foreign policy since 1900. Emphasis is on interests, objectives and strategies in key regions as well as domestic forces and constraints.

PSC 450 INTERNSHIP 1 - 15 cr.
Designed to give actual experience in the work of an agency and an understanding of the agency's position in the community. Further, the intern should become aware of the agency's philosophy and goals, the formal and informal organization of the agency, and the role for the agency in the political system.

PSC 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

PSYCHOLOGY

***PSY 101 INTRODUCTION TO GENERAL PSYCHOLOGY 3 cr.**
Designed to familiarize students with the application of scientific psychology to human life. Emphasis is on "normal" behavior and its antecedents. It includes the study of broad categories of human behavior through various psychological models.

PSY 151 INTRODUCTION TO APPLICATIONS OF PSYCHOLOGY 3 cr.
Intended for students who have recently become or are seriously considering a psychology major. Will focus on assessing initial skill levels, career choices and planning, critical skills and experiences that may be required for entry into the workforce or graduate study; department policies and procedures; and writing style requirements of the American Psychological Association (APA).

PSY 201 TESTS AND MEASUREMENTS OF PSYCHOLOGY 3 cr.
A study of the theory and techniques of behavior assessment, emphasizing computerized methods. It surveys psychological tests and their applications. Prerequisite: MA 125. PSY 101 is recommended.

PSY 202 SURVEY AND DATA ANALYSIS 3 cr.
The study of non-experimental and survey techniques used in the behavioral sciences. Emphasis is on survey design, computerized data analysis using SPSS-X, and report writing. Prerequisite: MA 125, PSY 101 and 201.

PSY 203 (SOC) TELEPHONE SURVEY RESEARCH 3 cr.
Provides training in applied social research. Students are directly involved in the construction of an interview schedule, selecting a sample, conducting telephone interviews, coding and analyzing data, and writing a report.

***PSY 210 PSYCHOLOGY OF FAMILY RELATIONS 3 cr.**
This survey course covers the psychological dynamics of the family as a unit, parent-child interactions, the effect of developmental events on the psychology of the family, divorce, single parent families, etc. Class discussion, psychodrama, and video tapes are used to illustrate these concepts.

***PSY 212 HUMAN SEXUALITY 3 cr.**
Provides a survey of scientific findings in the area of human sexual behavior, including topics of current interest and controversy as well as the traditional issues.

PSY 250 EXPERIMENTAL DESIGN I 4 cr.
Studies the design of controlled experiments as well as quasi-experiments in the behavioral sciences. Prerequisite: MA 125 and PSY 101.

***PSY 290 LIFE SPAN DEVELOPMENT 3 cr.**
Provides a broad spectrum of developmental processes, starting with conception and continuing through the life span to the elderly. The effects of the environment and heredity on biological, psychological, and sociological development are also studied. Prerequisite: PSY 101 or permission of instructor.

PSY 292 CHILD PSYCHOLOGY 3 cr.
An in-depth study of development starting with conception and ending with adolescence. Physical, social/emotional, and cognitive development receive primary emphasis.

PSY 300 HELPING SKILLS 3 cr.
Designed to help students develop effective listening and interpersonal skills for conducting counseling. The primary emphasis of this course is on (1) the application of counseling and psychological theory to actual casework and (2) the development of counseling skills through observing and conducting peer counseling sessions. Prerequisite: PSY 101 and upper division standing.

PSY 301 THEORIES OF COUNSELING 3 cr.
Considers the major theories of psychological treatment and behavior change. The major theories covered will include: psychodynamic, humanistic, transactional analysis, behavior, and cognitive therapies. Special emphasis will be placed on utilizing therapeutic models in group treatments. Prerequisite: PSY 101 and upper division standing.

PSY 305 (ED) EDUCATIONAL PSYCHOLOGY 3 cr.
A study of the application of learning theory principles to the educational and institutional setting. Provides demonstrations and field experiences to enhance the applicability of these principles. Prerequisite: PSY 101.

PSY 310 SOCIAL PSYCHOLOGY 3 cr.
Covers the individual aspects of social behavior. Attention is focused on problems in perception, thinking, and motivation. The following topics are examined: theories of person perception, attitude formation, personality structure, motivational determinants of group membership and social conformity, social roles and leadership. Prerequisite: PSY 101.

PSY 311 INTRODUCTION TO SMALL GROUP PROCESSES 3 cr.
Basic principles of small group process are examined through didactic and experiential approaches. Applications in various settings are examined.

PSY 312 DEVIANT BEHAVIOR AND SOCIAL PROCESS 3 cr.
Psychological theories of deviant behavior are studied. Major areas include: sexual deviations, prostitution, juvenile delinquency, suicide, obesity, drug addiction, etc., and the various treatment modalities. Prerequisite: PSY 101.

PSY 313 PSYCHOLOGY OF INTERVIEWING 3 cr.
An introduction to theoretical, methodological, and technical considerations of interviewing from a psychological perspective. Designed for those interested in the applications of interviewing in an industrial or organizational setting. Skill development is emphasized.

PSY 321 ADOLESCENT PSYCHOLOGY 3 cr.
Begins with changes occurring as a result of puberty and ends with the transition to young adulthood. The results of the interaction between heredity and the environment as they effect adolescent development are a major focus of the course.

PSY 323 COGNITIVE AND MORAL DEVELOPMENT 3 cr.
Acquaints students with basic concepts in cognitive and moral development. It focuses on current theories and research such as the work of Piaget and Kohlberg.

PSY 324 ADULT DEVELOPMENT AND AGING 3 cr.
Addresses the study of trends in human development from the transition to early adulthood, through senescence, to death. Examines the social, biological, cognitive, and personality components of the aging process. Emphasizes variations in psychological adaptations to personal changes and role transitions during the adult years.

PSY 330 DRUGS AND BEHAVIOR 3 cr.
A comprehensive overview of drug use and abuse in American society. Students are provided with a behavioral framework for understanding drug consumption through review of major pharmacological and social variables. Prerequisite: PSY 101.

PSY 331 PSYCHOLOGY OF CONSCIOUSNESS 3 cr.
Emphasizes research and applications relevant to the psychology of consciousness and altered states. Prerequisite: PSY 101 or equivalent and junior standing.

PSY 332 PSYCHOLOGY OF STRESS MANAGEMENT 3 cr.
This course provides a current overview of stress and stress-related dysfunction. Techniques for managing stress are emphasized through demonstration and student participation. Prerequisite: PSY 101 or equivalent and at least junior standing, or permission of instructor.

PSY 333 INTRODUCTION TO BIOFEEDBACK TECHNIQUES 1 cr.
Theory and applications of biofeedback technology to pain, psychosomatic, and other stress-related problems. Prerequisite: PSY 101 and junior standing or permission of instructor.

PSY 350 EXPERIMENTAL I: LEARNING 3 cr.
Surveys theories, research methodologies, and findings in the area of learning. May be taken with or without PSY 350L. Prerequisite: PSY 250 or permission of instructor.

PSY 350L EXPERIMENTAL I: LEARNING LABORATORY 1 cr.
Provides a working knowledge of research methodology and skills in psychological investigation. Students design and conduct research under instructor supervision. May be taken with or without PSY 350. Prerequisite: PSY 250 or equivalent and prior or concurrent course in experimental psychology.

PSY 351 EXPERIMENTAL II: PERCEPTUAL PROCESSES 3 cr.
Basic phenomena of the senses, their physiological correlates, and integration into complex perception are reviewed. May be taken with or without PSY 351L. Prerequisite: PSY 250 or permission of instructor.

PSY 351L&EXPERIMENTAL II: PERCEPTUAL PROCESSES LABORATORY 1 cr.
Provides a working knowledge of research methodology and skills in psychological investigation. Students design and conduct research under instructor supervision. May be taken with or without PSY 351. Prerequisite: PSY 250 or equivalent and prior or concurrent course in experimental psychology.

PSY 391 ABNORMAL PSYCHOLOGY 3 cr.
Provides a general introduction to the field of abnormal psychology. Major models of psychopathology and the causes and symptoms of abnormal thinking and behavior are considered. Prerequisite: PSY 290 or permission of instructor.

PSY 410 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3 cr.
Examines the application of psychology to business, industry, and marketing. Prerequisite: PSY 101.

PSY 412 HRM SPECIAL TOPICS 3 cr.
This course examines specific, variable topics related to the field of human resource management. Regularly offered topics include compensation and benefits, training and management development, organization development, and labor relations. Students may repeat the course but not the same topic for up to 12 credits.

PSY 421 DEATH AND DYING 3 cr.
Provides an overview of the psychological aspects of death and dying in our society. Topics include attitudes toward and preparation for death, the terminally ill patient, funeral rituals and burial, mourning and grief, and suicide and euthanasia. Classroom material is supplemented by the student's self-exploration and writing on feelings, attitudes, and beliefs about death.

PSY 422 PSYCHOLOGY OF WOMEN 3 cr.
An in-depth study of how psychological development, life experiences, and social change interact to affect women's development across the life span. Dual listed with 522.

PSY 430 THEORIES OF PERSONALITY 3 cr.
Considers major personality theories ranging from psychoanalytic to humanistic and behavioral models. Papers and discussion concentrate on examining merits and limitations of various theories.

PSY 445 ADVANCED COUNSELING TECHNIQUES 3 cr.
Provides advanced training in counseling skills for students in the helping professions (nursing, social work, counseling/clinical psychology, criminal justice, etc.). Emphasis placed on diagnosis and treatment of clients requiring long-term intervention. Special emphasis will be placed on diagnosis and treatment of personality disorders. Prerequisite: PSY 391 and 300 or permission of instructor. Dual listed with 545.

PSY 460 PHYSIOLOGICAL PSYCHOLOGY 3 cr.
Emphasizes physiological aspects of behavior through knowledge of the neurological structure and function. May be taken with or without PSY 460L. Prerequisite: PSY 250 or permission of instructor.

PSY 460L PHYSIOLOGICAL PSYCHOLOGY LABORATORY 1 cr.
Provides a working knowledge of research methodology and skills in psychological investigation. Students design and conduct research under instructor supervision. May be taken with or without PSY 460. Prerequisite: PSY 250 or equivalent and prior or concurrent course in experimental psychology.

PSY 461 EXPERIMENTAL SOCIAL PSYCHOLOGY 4 cr.
Research designs and methods for the study of problems in social psychology are critically examined. Covers experimental projects with questionnaires, scales, interviews, and observation methods. Problems of sampling and data analysis are also considered. Prerequisite: PSY 101 or permission of instructor.

PSY 462 BEHAVIOR MODIFICATION 3 cr.
Provides an introduction to a variety of techniques for altering behavior based on learning principles. May be taken with or without PSY 462L. Prerequisite: PSY 101.

PSY 462L BEHAVIOR MODIFICATION LABORATORY 1 cr.
Provides a working knowledge of research methodology and skills in psychological investigation. Students design and conduct research under instructor supervision. May be taken with or without PSY 462. Prerequisite: PSY 250 or equivalent and prior or concurrent course in experimental psychology.

PSY 490 SENIOR SEMINAR 3 cr.
Psychology majors are presented the formal opportunity to explore professional functions of psychologists and human service workers in related roles, as well as, various areas of current interest in applied psychology. Prerequisite: Senior standing or permission of instructor.

PSY 491 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 cr.
Review and discuss current issues in personnel administration and human resource management. Practical demands of the work situation are emphasized. Prerequisite: upper division status or permission of instructor and chairperson.

PSY 495 PRE-PROFESSIONAL EXPERIENCE 6 - 15 cr.
Provides practical experience and beginning skills to selected students. The experience will focus on applied skills, community service or research work in settings appropriate to the students' interests and curriculum, including mental health and other human service programs, hospitals, personnel offices, and industrial or governmental agencies. The goal is to relate theoretical learning to practical application. Prerequisite: Consent of department chairperson based on the recommendations of the department preprofessional committee. May be taken for 6 through 15 credits.

PSY 496 RESEARCH APPRENTICESHIP 6 - 15 cr.
Provides students with intensive experiences in empirical research under close supervision. Qualified students will become involved in ongoing research projects, working along with experienced researchers. Students are encouraged to serve their apprenticeship at other campuses or institutional settings. may be taken for 6 through 15 credits.

PSY 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

REGIONAL PLANNING

RPL 102 INTRODUCTION TO REGIONAL PLANNING 3 cr.
Examines regional planning as a tool for shaping the future man-made and natural environment. Introduces man/land relationships that affect community well-being, the tools used by government in managing these relationships for public benefit; and programs, politics, and activities required in recent planning legislation.

RPL 342 LAND-USE POLICY 3 cr.
An interpretive synthesis of the precepts and concepts of land-use that encourage and discourage geographic patterns on a changing landscape. Familiarizes the student with the economic, social, and political processes that are especially important for planning which is intended to move regions toward a particular goal.

RPL 352 RECREATIONAL LAND-USE PLANNING 3 cr.
An inquiry into the meaning, types, and demands of society's recreational activities. Planning emphasis will be given to the definition of problems and purposes and to the consideration of alternative resources for recreation, both physical and cultural.

RPL 460 TRANSPORT SYSTEMS 3 cr.
Analysis of the spatial principles and networks of transport systems, including factors of route location, theories of interaction, and the role of transport in space-economy.

RPL 480 TOPICAL SEMINARS 3 cr.
Discussion of selected problems, techniques, and research in the field of urban and regional planning.

RPL 494 PLANNING SEMINAR 3 cr.
Practical application of techniques learned in previous courses to typical planning problems.

RPL 496 PLANNING INTERNSHIP 12 cr.
Provides experience in regional or corporate planning offices to apply knowledge and skills of planning under the supervision of qualified planners. Observations, conferences, and an evaluation is made by the supervisory agency.

RPL 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

RESPIRATORY THERAPY

RTH 101 FUNDAMENTALS OF RESPIRATORY CARE I 3 cr.
Examines the scientific principles underlying the safe administration of medical gases and aerosols to patients in the hospital setting.

RTH 102 FUNDAMENTALS OF RESPIRATORY CARE II 4 cr.
Classroom instruction and laboratory practice of fundamental respiratory care assessment and therapeutic procedures. Assessment topics include: chest physical examination, chest x-rays, electrocardiograms, and bedside pulmonary function tests. Therapeutic topics include: oxygen and aerosol therapy, hyperinflation therapies, chest physical therapy, airway management, and cardiopulmonary resuscitation. Prerequisites: RTH 101 and BSC 121.

RTH 111 PULMONARY FUNCTION TESTING 2 cr.
This course covers lung function in health and disease. Techniques used to measure lung function are discussed and demonstrated. The student is instructed in the interpretation of pulmonary function tests.

RTH 112 ARTERIAL BLOOD GASES 1 cr.
This course covers the sampling and analysis of arterial blood and the interpretation of test results. Majors only. Prerequisites: RTH 101, BSC 121, and CHM 101.

RTH 199 CLINICAL PRACTICUM I 2 cr.
Introduction to the clinical practice of respiratory care. Provides experience in the administration of oxygen, aerosols, hyperinflation therapies, chest physical therapy, and artificial airway care. Examines the fundamentals of arterial blood gas sampling and analysis. Prerequisite: RTH 101 concurrent with 102.

RTH 200 CLINICAL PRACTICUM II 5 cr.
Designed to achieve competence in the administration of routine respiratory therapy modalities and competence in arterial blood gas sampling and analysis. Students will accompany pulmonary physicians on patient rounds and rotate through other clinical areas of the hospital. Prerequisite: RTH 102 and 199.

RTH 204 PHARMACOLOGY 2 cr.
Examines the action and uses of pharmacologic agents. Emphasis is on drugs used in the diagnosis and treatment of cardiac and pulmonary disease, and includes the calculation of dosages and solutions.

RTH 207 PULMONARY DISEASE 2 cr.
Introduction to common pulmonary disorders and their management. Topics include chronic obstructive pulmonary disease, restrictive pulmonary disorders, infectious pulmonary disease, pulmonary vascular disease, pulmonary pathology due to trauma, neonatal cardiopulmonary disease, and pediatric pulmonary disease. Prerequisite: BSC 122.

RTH 208 PERINATAL/PEDIATRIC RESPIRATORY CARE 2 cr.
Examines respiratory physiology and pathophysiology relevant to the newborn and pediatric patient. The principles, techniques, and equipment relied upon in providing respiratory care to this age group are identified and demonstrated. Prerequisite: RTH 102.

RTH 209 CLINICAL PRACTICUM III 3 cr.
Application of respiratory care to the patient in the critical care unit. Emphasis is on the management of adult and pediatric patients requiring mechanical support of ventilation. Prerequisite: RTH 208 concurrent with 211.

RTH 210 CLINICAL PRACTICUM IV 5 cr.
Continuation of RTH 209. Designed to achieve competence in the performance of all critical care procedures performed by the respiratory therapists. Prerequisite: RTH 209 concurrent with RTH 212.

RTH 211 MECHANICAL VENTILATION 4 cr.
Classroom instruction and laboratory practice in the management of patients requiring continuous mechanical support of ventilation. Prerequisite: RTH 102.

RTH 212 ADVANCED CARDIOPULMONARY CARE 3 cr.
Examines cardiovascular problems, advanced cardiopulmonary monitoring techniques, special procedures, pulmonary rehabilitation, and home care. Prerequisite: RTH 211.

RUSSIAN STUDIES

RUS 101 INTRODUCTORY RUSSIAN I 3 cr.
Oral alphabet drill, written alphabet drill, study of specific letters and sounds, pronunciation and orthography, personal pronouns, present tense, first conjugation verbs, accusative of personal pronoun questions, indirect questions and negation, present tense, second conjugation verbs, reflexive verbs, gender of nouns, accusative of nouns (direct objects), verbs of going, months and years with numbers, prepositional case of nouns, possessive pronouns/adjectives. Prerequisite: proven foreign language ability.

RUS 102 INTRODUCTORY RUSSIAN II 3 cr.
Dative case of pronouns, double negatives, conjunctions. Noun plurals, stress shift in plurals, geographical information, expressions with dative, demonstrative pronouns, adjectives, superlative degree, past tense, future tense, accusative of adjectives/ possessive pronouns, relative pronouns, partitive genitive, instrumental case with prepositions. Prerequisite: proven foreign language ability.

RUS 201 INTERMEDIATE RUSSIAN I 3 cr.
The perfective and imperfective aspect of verbs, dates and the negative case, dative case of nouns, adjectives and pronouns, instrumental case without prepositions, relative pronouns, partitive genitive, passive voice, instrumental case with prepositions, masculine nouns with stressed endings, genitive plural, adjectives modified by numbers, dative, instrumental and prepositional plural, indefinite pronouns, adjectives and adverbs, comparative degree of adjectives and adverbs, reading of simple texts. Prerequisite: RUS 101 and 102 or equivalent.

RUS 202 INTERMEDIATE RUSSIAN II 3 cr.
Conditional, subjunctive mood, verbs of going, running, taking, bringing, carrying, leading, prefixed verbs of motion, additional information about perfective/imperfective verbs, verbal adverbs, declension of last names, participles: present active, past active, present passive, past passive, review of semesters and previous grammar, further reading of simple Russian texts. Prerequisite: RUS 101 and 102 or equivalent.

RUS 370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
Open to students who wish to study abroad. Plans for foreign study should be presented at least one semester prior to departure. Number of credits granted will be based upon validated credentials presented to the department. The student should register for RUS 370-380 prior to departure. Students should consult the regulations for study-abroad available in the Office of the Provost/Vice President for Academic Affairs.

RUS 371-380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See RUS 370 for course description.

SOCIAL WORK

SWK 101 HUMAN SERVICES 3 cr.
Introduction to the various professional roles, delivery systems, and agencies in human services. Emergent issues, needs, and trends affecting both public and private sectors will be reviewed.

SWK 201 AFRICAN-AMERICANS: AN INCLUSIVE VIEW 3 cr.
Provides an opportunity for students to gain an awareness and understanding of the important contributions to society made throughout history by persons of color.

SWK 241 INTRODUCTION TO SOCIAL WORK 3 cr.
Analysis of welfare activities as a social movement and of the dominant characteristics of the social welfare institution in America. Attention is given to changing ideologies and to the professionalization of social work practice. Prerequisite: SOC 101; SOC 121 desirable.

SWK 250 SOCIAL WORK SKILLS 3 cr.
Prepares students with beginning social work skills to work in social services under the supervision of baccalaureate or masters degree social workers and other human service professionals. Prerequisite: Completion of AASW degree requirements.

SWK 257 SOCIAL WORK PROGRAM ORIENTATION 1 cr.
Acquaints students with the demands of professions in social work education. Examines expected educational outcomes of the social work program in relationship to the required curriculum designed to prepare social work generalists for beginning social work practice.

SWK 258 SOCIAL WORKER'S PROFESSIONAL RESPONSIBILITIES 1 cr.
Acquaints students with the organization of the profession of social work, ethics of the profession as expressed by the National Association of Social Workers, established standards of practice, and public policy statements and objectives.

SWK 259 CURRENT PROFESSIONAL ISSUES IN SOCIAL WORK 1 cr.
Acquaints the student with the major current issues that affect the delivery of social services to vulnerable populations.

SWK 260 PRACTICUM 3 cr.
The practicum provides experiences in social agencies that allow the student, under supervision, to practice the principals of social work learned throughout the program. Prerequisites: All course work prior to the practicum and SWK 250.

SWK 300 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT 3 cr.
Focuses on selected and current cultural, sociological, economic, and biological factors that have an impact on the growth and development of the individual organism. Examines the interrelationship of social, cultural, subcultural small groups, and situational factors that influence social development.

SWK 308 EVALUATION RESEARCH 3 cr.
A systematic approach to evaluating social work programs and practice outcomes.

SWK 315 (HST) EVOLUTION OF SOCIAL WELFARE IN AMERICA 3 cr.
Analyzes the socio-economic experience of America's "Have Nots," ideological views of misfortune, social welfare policy and politics, and the evolution of social work.

SWK 350 SOCIAL WORK METHODS: SMALL GROUPS 3 cr.
Examines methods of facilitating group development and group interaction that enhances attempts to solve problems faced by the group and individual members of the group. Prerequisite: SWK 200 and 241.

SWK 351 SOCIAL WORK METHODS: ORGANIZATIONS 3 cr.
Examines social work methods of assessing organizations to identify needs, establish goals for change, and enable the organization to change so as to benefit the individuals, families, and groups that are impacted by it. Prerequisite: SWK 200 and 241.

SWK 352 SOCIAL WORK METHODS: FAMILIES 3 cr.
A basic orientation to social work methods used to assist families to achieve their own goals. A systems approach to analyzing and assisting families is emphasized. Prerequisite: SWK 200 and 241 or permission of instructor. Dual listed with 552.

SWK 353 SOCIAL WORK METHODS: INDIVIDUALS 3 cr.
Examines methods of assisting individuals by employing social work problem-solving strategies designed to enhance social functioning and relieve stress created by adverse social conditions. Prerequisite: SOC 121 and SWK 241.

SWK 354 CHEMICAL DEPENDENCY TREATMENT 3 cr.
Prepares students for entry-level positions in the chemical dependency field. Analyzes global assessment strategy for differential diagnosis, as well as, beginning intervention techniques with the chemically dependent. Prerequisite: junior standing or documentation of work in a chemical dependency field. Dual listed with 554.

SWK 452 SOCIAL WORK FIELD PLACEMENT 12 cr.
Provides on-the-job study and skill training in a recognized social service agency providing services to various consumer groups. Designed to provide for the application of theory to helping processes with persons in need.

SWK 453 SENIOR SEMINAR 3 cr.
Designed to prepare the graduating social worker to participate actively in the process of supervision used by professional social workers. Students will actively participate in a helping relationship during the semester.

SWK 454 EMPLOYMENT COUNSELING 3 cr.
Introduction to the field of employment services. Examines techniques involved in assessing individual skills and job requirements, as well as, sources of manpower information and forecasting. Covers theories of job selection and career development. Attention is given to the special problems of individuals undergoing retraining or rehabilitation, physically handicapped, and those having limited skills potential.

SWK 457 INTERNATIONAL SOCIAL WORK 3 cr.
Provides an international perspective for examining the values, concepts, and practices of the social work profession. Introduces knowledge of the cultural, social, economic, and political forces that constitute international communities out of which social problems emerge and from which must be drawn resources for providing social services and solving problems.

SWK 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

SOCIOLOGY

***SOC 101 INTRODUCTION TO SOCIOLOGY 3 cr.**
Introduction to the basic concepts, premises, and techniques involved in the scientific approach to the study of human societies. Analysis is made of selected aspects of social behavior at interpersonal, intergroup, and societal levels of contemporary American society.

***SOC 121 CONTEMPORARY SOCIAL PROBLEMS 3 cr.**
Survey of social problems confronting American society today. Special attention is given to variant theoretical and social policy approaches to social problems.

SOC 200 AMERICAN MINORITIES 3 cr.
An investigation of the individual and group processes by which the U. S. has been peopled and of the resulting racial, religious, and ethnic communities. Consideration will be given to the similarities and differences in the values and experiences of a variety of groups and to the relative strength of tendencies toward assimilation and toward preservation of distinguishing characteristics. Prerequisite: ANH 101 or SOC 101.

SOC 203 (PSY) TELEPHONE SURVEY RESEARCH 3 cr.
Provides training in applied social research. Students are directly involved in constructing an interview schedule, selecting a sample, conducting telephone interviews, coding and analyzing data, and writing a report.

***SOC 232 AMERICAN FAMILY SYSTEMS 3 cr.**
Examines the family throughout the life cycle. Focus is on the life styles of contemporary families, the influence of values upon family life, and issues affecting individuals and families.

SOC 300 MEN IN SOCIETY 3 cr.
Survey and analysis of traditional male sex-roles, as well as the evolution of new societal definitions of masculinity and the 'New' Men's Movement. Male/male and male/female relationships and communication are also critiqued and evaluated. The emphasis throughout is upon student application of critical thinking skills to appropriate written and media sources of sociological information. Dual listed with 500.

SOC 301 ORGANIZATIONAL BEHAVIOR 3 cr.
Examines the social dimensions of work organizations including formal and informal interaction patterns, leadership, and organizational culture. Prerequisite: ANH 101 or SOC 101.

SOC 302 COMMUNITY 3 cr.
Examines the various types of communities as social systems. Special attention is given to total institutions.

SOC 305 SOCIOLOGY OF RELIGION 3 cr.
Analysis of the interrelationships between religion and other aspects of society, particularly with reference to the problems of order and change. Prerequisite: ANH 101; SOC 101 desirable.

SOC 306 INTERRACIAL SEMINAR 3 cr.
Examination of personal and institutional aspects of interracial relationships. Emphasis is on participative exploration through the use of controlled observations, simulations, role playing, and similar techniques.

SOC 307 SOCIAL RESEARCH I: RESEARCH DESIGN DATA COLLECTION 3 cr.
An introduction to the logic and techniques of the social research process. Special attention is given to construction of questions, mailed questionnaires, and interviewing techniques. Prerequisite: SOC 101.

SOC 308 SOCIAL RESEARCH II: ANALYSIS, INTERPRETATION, AND APPLICATIONS 3 cr.
Techniques and procedures for processing social science data. Ability to develop and evaluate research reports and to judge how findings may be applied to improve social work practices are primary goals of the course. Previous training in statistics strongly recommended.

SOC 321 FUTURISTIC SOCIETY 3 cr.
An investigation of the social impact of technological and social innovations. Special attention is given to the construction of scenarios.

SOC 322 SOCIOLOGY OF AGING 3 cr.
Analyzes the influence of social interaction upon the process, stages, and problems of aging, particularly of older age. Student-conducted oral history is utilized not only as a catalyst for intergenerational understanding and respect, but also as a therapeutic social work technique designed to enhance the self-image of older people by having them look back over their personal histories and through that process help them to meet the human need to attain a self-appreciation of the validity and significance of their lives. Dual listed with 522.

SOC 340 DOCUMENTARY PHOTOGRAPHY 3 cr.
Explores social relations with the camera. Examines the use of photographs as tools of inquiry, documentation, and data for social analysis. Studies problems related to cultural features affecting visual perception and reportage.

SOC 350 SELECTED TOPICS SEMINAR 1 - 6 cr.
Review of a specialty area in anthropology, sociology or the study of a problem from an interdisciplinary position. Prerequisite: upper division standing and permission of instructor. May be taken for one through six credits.

SOC 415 AMERICAN VALUES IN CONFLICT 3 cr.
Analyzes American values and values conflicts from a sociological perspective, placing such values and conflicts within a context of ideological orientation, ethnic/racial and social class diversity, group interaction, socio-cultural change, and societal policy.

SOC 430 SOCIOLOGY OF DEVIANCE 3 cr.
An introduction to sociological theories of deviance and the new perspectives in criminology. Explores community and social bases of juvenile delinquency and crime. Prerequisite: six credits in Sociology or permission of instructor. Dual listed with 530.

SOC 441 ORGANIZATIONAL INTERNSHIP 6 - 15 cr.
Provides experience in the regular activities of a business, government agency, or social service organization. Students will prepare an analysis of the organization's role system and its real or potential area of stress. May be taken from six through fifteen credits. Prerequisite: permission of instructor; SOC 301 strongly recommended.

SOC 460 SOCIOLOGY OF HEALTH AND MEDICINE 3 cr.
Review of research and social issues bearing on health and medical practice in American society. Aspects covered include cross-cultural and social class comparisons, sick roles, professionalization process, hospital organization, ideological issues, and public opinion.

SOC 480 SOCIOLOGICAL THEORY 3 cr.
An examination of classical and contemporary sociological theorists: Karl Marx, Max Weber, Emile Durkheim, C. Wright Mills, Erving Goffman and Amitai Etzioni. Each theoretical perspective is critically reviewed. Prerequisite: Twelve semester hours of Sociology courses or instructor approval.

SOC 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

SPANISH

SPA 101 INTRODUCTORY SPANISH I 3 cr.
For students who have not previously studied Spanish. Fundamentals of grammar, intensive drill in pronunciation, comprehension, and speaking. Two hours language laboratory required weekly.

SPA 102 INTRODUCTORY SPANISH II 3 cr.
Continuation of 101, two hour language laboratory weekly. Prerequisite: SPA 101 or equivalent.

SPA 201 INTERMEDIATE SPANISH I 3 cr.
Continuation of 102, grammar review. Prerequisite: SPA 102 or equivalent.

SPA 202 INTERMEDIATE SPANISH II 3 cr.
Continuation of 201. Prerequisite: SPA 201 or equivalent.

SPA 205 PRONUNCIATION AND PHONETICS cr.
Analysis of Spanish phonetics. Emphasizes oral drills for English-speakers seeking to acquire Spanish accent. Prerequisite: SPA 102.

SPA 300 SPANISH CONVERSATION 3 cr.
Practice in oral self-expression and comprehension. Selected topics assigned for each class. Prerequisite: SPA 202 or permission of instructor.

SPA 305 SPANISH CONVERSATION AND COMPOSITION 3 cr.
Intensive development of oral expression and self-expression in writing for students desiring a higher level of oral fluency and proficiency in writing. Class is conducted in Spanish. Prerequisite: SPA 202 or permission of instructor.

SPA 306 THE CULTURE AND CIVILIZATION OF SPAIN 3 cr.
Examines the history of customs and institutions of Spain. Emphasizes the effect of history on general culture and customs of present-day Spain. Prerequisite: SPA 202 or equivalent.

SPA 307 THE CULTURE AND CIVILIZATION OF LATIN AMERICA 3 cr.
Studies the history, customs and politics of Latin America. Emphasizes general characteristics: race, religion, life style, etc. Prerequisite: SPA 202 or equivalent.

SPA 320 ADVANCED SPANISH STRUCTURE 3 cr.
Study and application of Spanish structural patterns; emphasizes syntax. Prerequisite: SPA 202 or equivalent.

SPA 330 SURVEY OF SPANISH LITERATURE I 3 cr.
Examines the most important writers of Spain through 17th century; attention given to literary movements, historical backgrounds, style and form. Prerequisite: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 331 SURVEY OF SPANISH LITERATURE II 3 cr.
Continuation of 330. Prerequisite: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 340 SPANISH-AMERICAN LITERATURE I 3 cr.
Examines the major Spanish-American writers and movements through Realism and Naturalism. Prerequisite: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 341 SPANISH-AMERICAN LITERATURE II 3 cr.
Continuation of 340 from Modernism to the present. Prerequisite: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
Open to students who wish to continue the study of Spanish abroad. Plans for foreign study should be presented at least one semester prior to departure and should be approved by the department chairperson. Number of credits granted will be based upon validated credentials presented to the department. The student should register for SPA 370-380 prior to departure. Students should consult the regulations for study-abroad available in the Office of the Provost/Vice President for Academic Affairs.

SPA 371-380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See SPA 370 for course description.

SPA 400 SENIOR SEMINAR 2 cr.
Selected topics in Spanish and Latin American Literature.

SPA 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

SPECIAL EDUCATION

SPE 101 EXCEPTIONAL PERSONS IN SOCIETY 3 cr.
Examines the nature and need of persons who are exceptional in emotional, social, physical, and intellectual development, including the gifted and talented. Discussions will include career opportunities, social issues, current trends in Special Education, rehabilitation and related settings. Observation in Special Education settings will be available.

SPE 201 MENTALLY AND PHYSICALLY DISABLED 3 cr.
Introduction to etiology, characteristics, education, management, and laws pertaining to children and adults with mental and physical disabled. Prerequisite: SPE 101 or permission of instructor.

SPE 301 CURRICULUM DEVELOPMENT ADJUSTMENT 3 cr.
Examines curriculum development, adjustments, methods, and materials in Special Education. Studies IEP goals, school organization, grouping, planning unit instruction, teaching-learning process, evaluating pupil progress, and parent and other agency relationships. Prerequisite: SPE 201 or permission of instructor.

SPE 302 ASSESSMENT 3 cr.
Provides students with the skills necessary to diagnose and correct learning problems. Special attention is given to considerations related to the selection of appropriate formal tests (e.g., test bias). Selective diagnostic instruments are examined. Prerequisite: SPE 201 or permission of instructor.

SPE 303 OBSERVATION AND PARTICIPATION 3 cr.
Observation and participation in classroom setting. Emphasizing teaching/learning process, selecting, organizing, and presenting lessons and materials. Projects and demonstrations required.

SPE 310 COMMUNICATION DISORDERS 3 cr.
Introduction to the nature of specific speech, hearing and language disorders.

SPE 320 GIFTED AND TALENTED 3 cr.
Considers the characteristics of the gifted and talented. Introduces teaching procedures, program types, curriculum materials, and research.

SPE 321 METHODS FOR THE GIFTED 3 cr.
Examines curriculum, methods, materials, and resources in the education of the gifted and talented. Includes analysis and demonstration of leading materials and strategies. Case studies, field visits, and teaching simulations are provided.

SPE 330 CULTURAL DIVERSITY IN SPECIAL EDUCATION 3 cr.
Studies the definitions, causes, characteristics, and education of children and youth from multi cultural environments. Considers problems in social-psychological context with implications for programs of improvement and research.

SPE 340 CHILDREN IN NEED OF EMOTIONAL SUPPORT 3 cr.
Examines the etiology of emotional disturbance with concentration on the characteristics, diagnostic procedures, therapy, educational strategies, instructional materials, and relevant research in relation to the education of emotional/behavioral disturbance. Includes observation and child study experience.

SPE 345 BEHAVIOR MANAGEMENT 3 cr.
Studies the implications of behavior theory as classroom teaching techniques. Conditioning of both academic skills and non-academic behaviors on an individual and group is stressed. Direct experience in modifying the behavior of exceptional children will be arranged.

SPE 360 EXCEPTIONAL CHILDREN IN REGULAR CLASSES 3 cr.
Develops an understanding of the rationale and procedures for main streaming exceptional children. Examines legal and philosophical rationales and current developments in mainstreaming are discussed. Major mainstreaming models will be studied, including problems and issues relevant to each technique.

SPE 375 RESIDENTIAL FACILITIES FOR THE DISABLED 3 cr.
Explores the many types of residential facilities, from institutions to independent living, used to house the disabled. The exploration will include philosophies, regulations, policies, and standards applied to facilities. Client programming, staff training, and supportive community agency services will be examined.

SPE 377 ADULT DISABILITIES 3 cr.
Covers a broad range of disabilities in adulthood including physical, mental, and learning disabilities, including emotional problems. Emphasis will be on current program trends, issues, services, research on adult learning and adjustment, and implications for the helping professions.

SPE 391 THE EXCEPTIONAL PERSON IN THE UNITED STATES AND EUROPE - A COMPARATIVE 3 cr.
Designed to provide a comparative study of the U.S. and Europe of the care, treatment, and rehabilitation of exceptional persons from birth through adulthood. Study involves contact with families of exceptional individuals and professionals providing services on both continents.

SPE 400 STUDENT TEACHING 12 cr.
(By arrangement). Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience under the supervision of master teachers in two different special classes in university established centers. Observations and conferences are scheduled by the departmental supervisor. Prerequisite: 2.5 QPA.

SPE 404 EARLY CHILDHOOD DISABILITIES 3 cr.
Examines the nature, needs, and education of young disabled children in infant-toddler, preschool, and primary programs. Emphasis will be on identification, multi-disciplinary educational planning, parent counseling, agencies, and services. Coverage will include special classes, resource rooms, and mainstream education including curriculum, methods, and materials plus the roles of other professionals. Observations and child studies are required. Prerequisite: permission of instructor.

SPE 407 TRANSITION TO ADULT LIFE 3 cr.
Students examine their basic assumptions about adult life and learn about vocational training, employment services, life skills, educational programs, advocacy and services for adults with disabilities.

SPE 410 PROFESSIONAL SEMINAR 3 cr.
Designed to develop and refine the professional competencies of the special education major prior to the field experience and/or accepting a professional position. Coverage includes general orientation to the profession, current issues, school organization and administration, techniques for seeking a professional position, the scope of the field of special education, and professional responsibilities.

SPE 430 TECHNOLOGY IN SPECIAL EDUCATION 3 cr.
Introduction to and overview of the possibilities provided by microcomputers in assisting the exceptional learner. Provides initial skill and knowledge in using the microcomputer. Exposure will be made to available resources, selection and evaluation of course ware, adaptive devices, curriculum, correlation, and classroom integration. Dual listed with 530.

SPE 435 METHODS I: TEACHING CHILDREN IN NEED OF ACADEMIC SUPPORT 3 cr.
Provides organizational procedures, curriculum practices, methods and techniques used in educating mildly handicapped students K-12 in need of academic learning support. Emphasis is on direct teaching, collaborative practices, transitional planning, and curriculum adaptation. Prerequisite: SPE 101 and 301.

SPE 440 METHODS II: CHILDREN IN NEED OF LIFE SKILLS SUPPORT 3 cr.
Study of the nature and needs of school age children with moderate and severe handicapping conditions that include cognitive, health and/or physical impairments. Focus is on the educational and vocational needs of these children from a content base which includes identification, assessment, and remediation practices which are coupled with supportive measures, materials, and techniques. The use of instructional adaptations such as assistive technology will be stressed. Prerequisite: SPE 101 and 301. Dual listed with 508.

SPE 450 INTERNSHIP 12 cr.
A supervised field experience in a professional setting serving the disabled.

SPE 480 SPECIAL EDUCATION WORKSHOPS 1 - 6 cr.
Special workshop/seminars focusing on contemporary trends, topics, and problems in the field of special education. May be taken for one through six credits.

SPE 481-485 SPECIAL EDUCATION WORKSHOPS 1 - 6 cr.
See SPE 480 for course description.

SPE 490 LEARNING DISABILITIES 3 cr.
Introduction to the definition, identification, etiology, and epidemiology of learning disabilities with a particular emphasis on methods of differential diagnosis and educational procedure. Remediation strategies, classroom management, and research will be studied.

SPE 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

THEATER

THT 110 INTRODUCTION TO THEATER 3 cr.
Survey of drama and the art and craft of the theater. Content doesn't necessarily include practice in applied theater.

THT 210 STAGECRAFT 3 cr.
Examines principles, procedures, and techniques of theatrical production including: background organization and planning, construction, painting, rigging, and operation of scenic elements, and the use and operation of lighting equipment. The laboratories are connected with the department's productions.

THT 212 FUNDAMENTALS OF ACTING I 3 cr.
Introduces basic techniques and methods of acting. Designed for the beginning actor. No previous acting experience is necessary.

THT 213 FUNDAMENTALS OF ACTING II 3 cr.
Continuation of 212. Emphasis is on scene study, rehearsal, and performance techniques. Prerequisite: THT 212 and permission of instructor.

THT 214 MAKE-UP 3 cr.
Designed to familiarize the student with the basic principles and technique of stage make-up, the various types of make-up and how to apply it in order to enhance a dramatic characterization.

THT 215 SURVEY OF THEATER HISTORY I 3 cr.
The development of the theater from its primitive origins to the 19th century.

THT 300 ADVANCED ACTING I 3 cr.
Advanced course in the methods and presentations of acting styles, from the ancient Greeks to Shakespeare. Particular emphasis will be placed on performance. Prerequisite: THT 212 and 213.

THT 301 ADVANCED ACTING II 3 cr.
Continuation of 300. Covers Restoration to the Modern Theater.

THT 305 THEATER HISTORY I 3 cr.
The development of the theater from its primitive origins to the Renaissance. Western and Non-Western forms will be examined

THT 306 THEATER HISTORY II 3 cr.
The development of the theater from the Renaissance to the present. Western and Non-western forms will be examined.

THT 310 FUNDAMENTALS OF DIRECTING 3 cr.
Basic principles and procedures of directing a play. Includes directing or workshop scenes and a one-act play presented to a public audience. Prerequisite: THT 210, 212, 305, 306, and permission of instructor.

THT 312 STAGE LIGHTING 3 cr.
The history and basic techniques of lighting for the stage. Lighting designs and control are stressed. Includes participation in lighting major productions. Prerequisite: THT 210.

THT 313 SCENE DESIGN 3 cr.
Study and practice in the principles and techniques of scenic design in the modern theater. Emphasis is on knowledge and sense of the theater and the relationship of the contribution of the scenic designer with those of the actor, director, and playwright. Prerequisite: THT 210, 317 or permission of instructor.

THT 314 PLAY PRODUCTION PRACTICES 3 cr.
Concentrates on the various aspects of theater production from script to performance. An intensive experience in theatrical production for public performance. Synthesis of acting, design, technical and managerial elements in total production with emphasis on "hands-on" experience.

THT 315 SCENE PAINTING ADVANCED STAGECRAFT 3 cr.
Training in the techniques and practices of contemporary scenic arts. Laboratory time will allow the student to demonstrate a proficiency of the techniques studied.

THT 316 THEATER AND STAGE MANAGEMENT 3 cr.
Fundamental aspects of management designed for the serious student of theater. Provides concentrated experiences in major college productions as well as responsibilities in box-office and publicity.

THT 317 DRAFTING AND SCENIC RENDERING 3 cr.
A study of techniques and conventions of drafting and full color rendering for the theater technician-designer. Prerequisite: THT 210.

THT 318 ADVANCED LIGHTING 3 cr.
Investigation into contemporary practices, equipment, and procedures for lighting all types of theatrical and entertainment events. Includes projects in the field. Prerequisite: THT 312.

THT 410 (COM) INTERNSHIP 6 cr.
Supervised and evaluated participation in varied settings provides practical application of theoretical principles. May be taken from 6 through 15 credits.

THT 417 PLAY STRUCTURE AND ANALYSIS 3 cr.
Analysis of selected plays and their significance in the development of the dramatic form, including the study of the social and cultural conditions in which the playwright lived and worked.

THT 418 PLAY WRITING 3 cr.
Studies the principles and theories of dramatic structure. Practice in writing for the stage. Prerequisite: THT 215, 216, 310, 417, and/or consent of instructor.

THT 450 (COM) SPECIAL PROJECTS 1 - 3 cr.
A project initiated by the student to increase his/her knowledge in an advanced area not offered as a regular class. Intensive study of a subject area under the guidance of a faculty member who has special expertise in that subject. Prerequisite: Permission of instructor. May be taken from one through three credits not to exceed nine credits.

THT 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

TRAVEL AND TOURISM

TRT 102 INTRODUCTION TO TRAVEL-TOURISM 3 cr.
Surveys the broad nature of travel-tourism with an emphasis on the interrelationships between traveler need, desire, and travel fulfillment.

TRT 201 COMPUTERIZED RESERVATIONS, TICKETING, TRAVEL AGENCY OPERATIONS 3 cr.
Acquaints student with computerized airline reservations and ticketing procedures including domestic and international route structures, fare rules and construction, industry airline reference materials, and operations of airline computerized reservation systems. The student will also study the travel agency: its personnel, operations, and management.

TRT 300 THE TRAVEL CONSUMER 3 cr.
Provides students with a comprehensive understanding of the traveler-tourist characteristics, psychographics, and the external influences that impact on potential markets for travel-tourism products.

TRT 312 INTERNATIONAL TOURISM 3 cr.
Studies the international tourist and the ramifications of such tourism to both sending and host countries.

TRT 320 NORTH AMERICAN DESTINATIONS ATTRACTIONS 3 cr.
Acquaints the student with North American and West Indian travel destinations, attractions, and attractiveness. Study of the marketing and promotion of these destinations.

TRT 321 WORLD-WIDE DESTINATIONS ATTRACTIONS 3 cr.
Acquaints the student with the world-wide travel destinations, attractions, and attractiveness. Study of the marketing and promotion of these destinations.

TRT 322 TRAVEL-TOURISM SITE DEVELOPMENT 3 cr.
An analysis of natural/manmade tourism resources of value in travel tourism. The development of resources into viable facilities will be considered in the contexts of changing socioeconomic and political considerations.

TRT 410 (HEC 310) TOPICAL SEMINAR IN TRAVEL-TOURISM 3 cr.
Seminar topics vary to offer exposure to the multifaceted nature of travel-tourism. Topics include: the travel agency, wholesale tour development, issues in contemporary travel and tourism, and hospitality.

TRT 420 TRAVEL-TOURISM PROJECT SEMINAR 3 cr.
Provides an opportunity to perform individual research, problem solving, and decision making in practical situations related to travel-tourism.

TRT 430 TOURISM SUPPLIERS AND WHOLESALERS 3 cr.
A comprehensive study of travel-tourism suppliers, especially accommodations, food services, and the ground operators followed by a study of the wholesale travel business including personal experience in package/tour development and marketing.

TRT 431 AGENCY CRUISE MANAGEMENT 3 cr.
Examines the structure, organization, and operation of a retail agency cruise department or cruise-only agency.

TRT 460 PASSENGER TRANSPORT 3 cr.
An analysis of spatial principles and transport systems and networks; including factors of route location, theories of interaction, and the role of all forms of passenger transport in the travel-tourism economy.

TRT 461 CRUISE PRODUCTS 3 cr.
Acquaints students with the complexity and diversity of the cruise products available in the marketplace including equipment, corporate products and marketing philosophy, destinations, and markets.

TRT 480 CONTEMPORARY ISSUES TRAVEL TOURISM 3 cr.
Survey of contemporary issues that are faced by the travel and tourism industry. Students become familiar with the issues through intensive study of the popular and trade press.

TRT 494 INTERNSHIP 1 - 15 cr.
Provides an opportunity to apply skills and knowledge of travel-tourism under the supervision of professionals. Two individually designed projects are required. May be taken from one through fifteen credits. Prerequisite: permission of instructor.

TRT 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

WOMEN'S STUDIES

WS 410 SEMINAR IN WOMEN'S STUDIES 3 cr.
An in-depth examination of a topic in Women's Studies including women's contributions, knowledge, and perceptions taught from a cross-disciplinary, cross-cultural perspective in seminar style. This serves as the capstone course for the Women's Studies minor. May be taken for a total of nine credits. Prerequisite: ENG 100, two other Women's Studies courses, and junior standing or permission of instructor.

X-RAY TECHNOLOGY

XRT 101 X-RAY TECHNOLOGY I 3 cr.
Introduction to the basic elements of radiologic technology. Students will discuss and evaluate medicolegal issues, radiation protection, medical terminology, and introductory radiographic procedures.

XRT 102 X-RAY TECHNOLOGY II 3 cr.
Basic introduction to imaging equipment and concepts of patient care. Students will learn examination considerations for the extremities, spine, shoulder girdle, pelvic girdle, and bony thorax. Prerequisite: XRT 101, BSC 121.

XRT 103 X-RAY TECHNOLOGY III 5 cr.
Acquaints the student with the methods of x-ray film processing and principles of radiation biology. Emphasis will be placed on examinations of the cranium. Radiographic consideration of examinations using contrast media and film evaluation will be discussed. Prerequisite: XRT 102.

XRT 104 X-RAY TECHNOLOGY IV 3 cr.
Studies the principles of radiographic exposure. Emphasis is placed on radiographic examinations of the urinary system and alimentary canal. Students will evaluate radiographic concepts. Prerequisite: XRT 103.

XRT 105 X-RAY TECHNOLOGY V 3 cr.
Examines the radiographic aspects of human disease and pathology. Provides the basic concepts and techniques of radiologic quality assurance and continues to evaluate radiographic images. Prerequisite: XRT 104.

XRT 106 X-RAY TECHNOLOGY VI 4 cr.
Reviews the knowledge and cognitive skills underlying the intelligent performance of the major tasks typically required of an entry-level radiographer. Students will learn the methodology of scientific technical reporting and evaluation. Prerequisite: XRT 105.

XRT 203 X-RAY PHYSICS 3 cr.
Provides background for the more technical aspect of radiological physics. Provides background for understanding the principles and practices of radiology, and an understanding of the electromagnetic spectrum. Prerequisite: PHY 165.

XRT 301 CLINICAL PRACTICUM I 2 cr.
Examines the proper use of modern diagnostic x-ray equipment. Provides a general orientation regarding hospital facilities and policies. Students will perform, while under the direct supervision of a registered radiographer, examinations presented in XRT 102. Prerequisite: XRT 101.

XRT 302 CLINICAL PRACTICUM II 2 cr.
Students continue to practice the skills learned in XRT 301, and expand their clinical education into newer areas. They will perform, while under the direct supervision of a registered radiographer, examinations presented in courses XRT 102 and 103. Patient contact and responsibilities will increase in this course. Prerequisite: XRT 102 and 301.

XRT 303 CLINICAL PRACTICUM III 2 cr.
Provides more advanced examinations presented in XRT 103 and 104. Training in the modalities of Nuclear Medicine and Computerized Tomography will be provided with a two-week rotation through each area. Students will demonstrate traumatic examination skills in the Emergency Room X-Ray Department practicum. Prerequisite: XRT 103 and 302.

XRT 304 CLINICAL PRACTICUM IV 3 cr.
Students continue to perform radiographic examinations in the general diagnostic clinical area along with rotations through cardiovascular imaging, MRI, Ultrasound, and Radiation Therapy. Assignments will be given involving the quality assurance testing of diagnostic x-ray equipment. Prerequisites: XRT 104 and 303.

XRT 305 CLINICAL PRACTICUM V 2 cr.
Performance of radiographic examinations that are done by entry-level radiographers. Patient contact and responsibility will increase with examinations performed under indirect supervision. A clinical elective will be selected for further specialization in any area of radiology. Prerequisite: XRT 105 and 304.

IX. GOVERNING BOARD AND FACULTY

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Carol J. Tama ..... Blossburg, PA
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Steven K. Winnie ..... Lanesboro, PA

Faculty

Abrey, Joan E. (1993). M.S.N., SUNY-Binghamton, 1980. Instructor, Robert Packer Hospital, Department of Health Sciences.

Achey, LesErick B. (1970). B.A., Lebanon Valley College, 1969; M.S., Drexel University, 1971. Associate Professor, Library.

Ambrosio, Antonio (1988). B.S.,B.S.E., State University of Campinas, 1972; M.S., Ibid., 1975; Ph.D., University of Notre.Dame, 1982. Associate Professor, Chemistry and Physics.

Amchin, Robert (1992). B.M. New England Conservatory of Music, 1981; M.M., Ibid., 1985; Ph.D., University of Michigan, 1995. Associate Professor, Music.

Barton, Bruce (1993). B.S., Moorehead State University, 1980; M.A., University of Nebraska-Lincoln, 1982; Ph.D. University of Denver, 1989. Associate Professor, English.

Baylor-Ayewoh, Tondelaya K. (1978). B.A., West Virginia State College, 1974; M.A., University of West Virginia, 1975; Ph.D., Pennsylvania State University, 1988. Professor, Academic & Human Development.

Biblehimer, Helen L. (1995). B.S.N., Pennsylvania State University, 1986; M.S., Ibid., 1989, Ph.D., Ibid., 1994. Associate Professor, Robert Packer Hospital, Department of Health Sciences.

Bickham, Stephen H. (1970). B.A., University of Dayton, 1964; M.A., Southern Illinois University, 1965; Ph.D., Ibid., 1970. Professor, Philosophy and Liberal Studies.

Biddison, Larry (1969). B.A., Texas A&I University, 1958; M.A., Louisiana State University, 1963; Ph.D., Ibid., 1969. Professor, English.

Blais, Ellen (1968). B.A., Indiana University, 1966; M.A., University of Chicago, 1967; Ph.D. SUNY-Binghamton, 1978. Professor, English.

Blanco, Flor (1988). B.A., City University of New York, 1972; M.A., Ibid., 1974; Ph.D., University of Connecticut, 1986. Associate Professor, Foreign Language.

Borsheim, David J. (1973). B.A., College of St. Thomas, 1968; M.A., Ibid., 1970; M.M., University of Cincinnati-Conservatory of Music, 1973. Associate Professor, Music.

Boston, Nancy J. (1989). B.M., Lawrence University, 1973; M.M., Peabody Conservatory of Music, 1975; D.M.A., Ibid., 1984. Associate Professor, Music.

Brennan, Adam (1995). B.A. Western Illinois University, 1986; M.A., Ibid., 1989. Assistant Professor, Music.

Brown, Edward E. (1971). B.M., Shenandoah Conservatory of Music, 1958; M.M., Converse College, 1964. Professor, Music.

Brown, Stephen D. (1974). B.A., Eastern Illinois University, 1970; M.S., Ibid., 1972. Associate Professor, Psychology.

Brucklacher, Barry (1989). B.S.E., Mansfield State College, 1970; M.Ed., Ibid., 1981; Ph.D. Pennsylvania State University, 1992. Associate Professor, Education.

Carpenter, Bruce E. (1987). B.S., Lycoming College, 1974; M.A., University of Connecticut, 1975; Ph.D., University of Connecticut, 1990. Associate Professor, Business and Economics.

Carrish, Sharon A. (1993). B.S., Bowling Green State University, 1971; M.A., Framingham State College, 1984; M.A., Bridgewater State College, 1988; Ph.D., Boston College, 1992. Assistant Professor, Communications and Theatre.

Carter, Harold R. (1990). B.S. Central State College, 1956; M.S., Miami University, Ohio, 1963; Ph.D., Union Institute, 1976. Associate Professor, Art.

Carter-Onyirimba, Denise (1978). B.A., Mansfield State College. Instructor, Academic & Human Development.

Chabala, William (1976). B.S., Kutztown State College, 1971; M.Ed., Kutztown State College, 1976. Associate Professor, Academic & Human Development.

Chester, Michael J. (1993). B.S., University of Delaware, 1985; Ph.D., University of Pennsylvania, 1991. Assistant Professor, Chemistry and Physics.

Clark, Bernard K. (1984). B.A., Oxford University, 1959; M.A., Ibid., 1964; M.A., Simon Fraser University, 1968. Associate Professor, Foreign Language.

Cleland, Craig J. (1981). B.S., Millersville State College, 1975; M.Ed., Shippensburg State College, 1978; Ph.D., University of Maryland, 1980. Professor, Education.

Cohen, Pablo (1993). B.M., Buenos Aires Conservatory, 1985; M.M., Temple University, 1989. Instructor, Music.

Crum, Michael (1984). B.S., Southeast Missouri State University, 1976; M.F.A., University of Southern Mississippi, 1984. Assistant Professor, Communications and Theatre.

D'Ortona, Catherine M. (1994). B.S., Loyola College, 1989; M.A., University of Virginia, 1992; Ph.D., Ibid., 1994. Assistant Professor, Mathematics and Computer Information Science..

Dalmolen, Albert (1987). B.A., Brown University, 1967; M.A., The American University, 1969; Ph.D., Ibid., 1972. Professor, History and Political Science.

Darby, David J. (1972). B.S., Mansfield State College, 1965; M.S., Pennsylvania State University, 1970; Ph.D., Ibid., 1973, Associate Professor, Geography and Geology.

Davis, Scott A. (1988). B.S., Eastern College, 1977; Ph.D., University of Virginia, 1982. Associate Professor, Chemistry and Physics.

DePumpo, Lester J. (1993). B.S.ED., Wilkes University, 1971; M.S.Ed., Elmira College, 1976; M.S., Syracuse University, 1986. Assistant Professor, Robert Packer Hospital, Department of Health Sciences.

Dettwiler, Peggy D. (1990). B.S., University of Wisconsin-Platteville, 1970; B.M., University of Wisconsin-Madison, 1982; M.M., Ibid., 1980; M.M., University of Texas-San Antonio, 1985; D.M.A., Eastman School of Music, 1991. Associate Professor, Music.

Dodson, Russell L. (1982). B.S.E., Wayne State University, 1972; M.S., Michigan State University, 1974; Ph.D., Ibid, 1985. Professor, Geography and Geology.

Eidenier, Elizabeth (1978). B.M., Florida State University, 1971; M.M., Florida State University, 1974. Assistant Professor, Music.

Elsasser, Thomas (1982). B.A., Norwich University, 1969; M.A., Fairleigh Dickinson University, 1978. Assistant Professor, Academic & Human Development.

Engel, Wellington C. (1969). B.S., Kansas State University, 1963; M.S., University of Kansas, 1969. Associate Professor, Mathematics and Computer Information Science.

Evans, Wayne (1981). B.S., Lock Haven State College, 1977; M.Ed., Pennsylvania State University, 1980. Associate Professor, Health, Physical Education & Recreation.

Feil, Richard N. (1968). B.A., Loyola University, 1961; M.A., Catholic University of America, 1963; Ph.D., Ibid., 1968. Professor, Psychology.

Fernsler, Thomas J. (1992). B.S. Shippensburg State College, 1975; M.Ed., Pennsylvania State College, 1981; D.Ed., Ibid., 1983. Assistant Professor, Education.

Flesch, David C. (1977). B.S., University of Wisconsin-Platteville, 1967; Ph.D., Iowa State University, 1977. Professor, Biology.

Floyd, Janis (1995). B.A., Wake Forest University, 1975; M.Ed., East Carolina University, 1979; M.A., Appalachian State University, 1983; Ed.D., Virginia Polytechnic and State University, 1995. Assistant Professor, Special Education.

Fuller, Janet A. (1980). B.S., Mansfield State College, 1973; M.Ed., Ibid., 1976; Ed.D., Pennsylvania State University, 1989. Associate Professor, Education.

Funmaker, Walter W. (1990). A.A., El Camino College, 1964; B.A., California State University-Los Angeles, 1967; M.A., University of Minnesota, 1974; Ph.D., Ibid., 1986. Associate Professor, Social Work, Anthropology and Sociology.

Gaballa, Mahmoud A. (1991). B.A., M.A., Alexandria University, 1970; M.B.A., Tarleton State University, 1980; M.P.A., New York University, 1984; Ph.D., Ibid., 1990. Associate Professor, Business and Economics.

Galloway, H. Michael (1980). B.M.E., Baldwin-Wallace College, 1966; M.M., New England Conservatory, 1968; D.M.A., Hartt College, 1986. Professor, Music.

Ganong, Barry R. (1992). B.S., Oral Roberts University, 1977; Ph.D., University of Wisconsin-Madison, 1982. Associate Professor, Chemistry and Physics.

Garay, Marta (1990). B.A., Universidad de Buenos Aires, 1961; M.A., University of Colorado, 1974; Ph.D., Ibid., 1978. Professor, Foreign Language.

Garrett, Michele P. (1993). B.A., Lebanon Valley College, 1981; M.S.N., Villanova College, 1989. Assistant Professor, Robert Packer Hospital, Department of Health Sciences..

Garrison, Frances L. (1985). B.S., James Madison University, 1982; M.L.S., George Peabody College for Teachers of Vanderbilt University, 1985; M.S.Ed., Elmira College, 1990. Assistant Professor, Library.

George, Arnold (1968). B.S., University of Massachusetts, 1964; Ph.D., Ibid., 1969. Professor, Chemistry & Physics.

Gertzman, Jay (1968). B.A., University of Pennsylvania, 1961; M.A., Columbia University, 1963; Ph.D., University of Pennsylvania, 1972. Professor, English.

Ghods, Abe (1983). B.S., Youngstown State University, 1976; M.B.A., Ibid, 1978. Associate Professor, Business & Economics.

Glimm, James (1968). B.A., The College of the Holy Cross, 1964; Ph.D., University of Texas, 1968. Professor, English.

Goff, Ralph C. (1969). B.S., St. Bonaventure University, 1963; Ph.D., Ibid., 1970 Associate Professor, Biology.

Grace, Joel E. (1969). B.A., Franklin & Marshall, 1961; M.A., University of Waterloo, 1964; Ph.D., Ibid., 1966; Professor, Psychology.

Hamwi, Richard (1995). B.A., Queens College, City University of New York, 1970: M.A., University of New Mexico, 1973; M.F.A., University of California, 1974; Ph.D., Pennsylvania State University, 1978. Associate Professor, Art.

Harris, Andrea (1995). B.A., University of Vermont, 1984; M.A., SUNY-Buffalo, 1987; Ph.D. Ibid., 1992. Assistant Professor, English.

Havalchak, Andrew G. (1980). B.S., Pennsylvania State University, 1972; M.B.A., Syracuse University, 1975; CPA. Assistant Professor, Business and Economics.

Heck, Richard A. (1970). B.A., Westminister College, 1962; M.S., Ibid, 1964; M.Ed., University of Pittsburgh, 1966; Specialist Diploma, Ibid., 1967; Ed.D., University of Miami, 1971. Professor, Education.

Hensley, Stephen (1995). B.S., Eastern Kentucky University, 1982; Ph.D., Wright State University, 1990. Assistant Professor, Biology.

Hindman, Kathleen B. (1967). B.A., Valparaiso University, 1965; M.A., Louisiana State University, 1967; Ph.D., Pennsylvania State University, 1980. Professor, English.

Holtman, Bradley A. (1992). B.S., University of Wisconsin-Madison, 1976; M.A., Ibid., 1986. Assistant Professor, Foreign Language.

Iovino, David A. (1967). B.S., Duquesne University, 1965; M.A., Ibid., 1971. Assistant Professor, Foreign Language.

Irwin, S. Robert (1970). B.S., Wake Forest University, 1963; M.Ed., University of Toledo, 1964. Assistant Professor, Health, Physical Education & Recreation.

Iseri, Howard (1991). B.A., California State University-Sacramento, 1984; M.A., Ibid., 1986; Ph.D., University of California-Davis, 1992. Associate Professor, Mathematics and Computer Science.

Kasambira, Daniel P. (1973). B.S., Illinois Wesleyan University, 1964; M.S.W., University of Michigan, 1966; Ph.D., Case Western Reserve University, 1975. Professor, Social Work, Anthropology and Sociology.

Keller, Peter A. (1974). A.B., Franklin & Marshall, 1967; M.S., University of Miami, 1970, Ph.D., Ibid., 1972. Professor, Psychology.

Kim, Earl Youngsuck (1988). B.M., Seoul National University, Seoul, Korea, 1978; M.M., New England Conservatory of Music, 1983; D.M.A., University of Miami, 1987. Associate Professor, Music.

King, Hobart M. (1994). B.S.E., California State University, 1975; M.S., West Virginia University, 1978; Ph.D., Ibid., 1982. Assistant Professor, Geography and Geology.

Kirby, John M. (1992). B.S., Missouri Southern State College, 1974; M.S., Millersville State College, 1976; Ph.D., Virginia Polytechnic Institute and State College, 1981. Associate Professor, Biology.

Kollar, Francis J. (1966). B.S. St. Vincent College, 1964; M.Ed., Millersville, 1971. Associate Professor, Academic and Human Development.

Koloski, Bernard (1964). B.S., East Stroudsburg State College, 1959; M.A., University of Pennsylvania, 1964; Ph.D., University of Arizona, 1972. Professor, English.

Kozacko, Marilyn (1992). B.A., Syracuse University, 1960; M.S., Elmira College, 1991. Instructor, Chemistry and Physics.

Krantz, Clarence L. (1976). B.S.E.E., Bucknell University, 1967; M.E.E., Cornell University, 1968. Associate Professor, Mathematics and Computer Information Science.

Krieger, Susan M. (1978). B.A., University of New Hampshire, 1972; M.A., Trenton State College, 1974. Associate Professor, Academic and Human Development.

Kutbay, Bonnie G. (1990). B.A., University of Colorado, 1972; M.A., Ibid., 1976; M.A., Arizona State University, 1980; Ph.D., University of Toronto, 1991. Associate Professor, Art.

Kutty, Gopalan (1984). Bachelor of Commerce, University of Calicut, 1971; Masters of Commerce, Ibid., 1974; M.B.A., Katholieke Universiteit Leuven, 1981; Ph.D., Northeastern University, 1985. Professor, Business and Economics.

Kyofski, Bonelyn L. (1989). B.S., Mansfield State College, 1962; M.A., Pennsylvania State University, 1966; Ph.D., Ibid, 1976. Associate Professor, Education.

Laib, Susan G. (1989). B.M., Eastman School of Music, 1980; M.M., University of Colorado, 1982. Instructor, Music.

Lambert, Monica A. (1996). B.S., West Virginia University, 1987; M.A. West Virginia, 1988; Ed.D., Florida Atlantic University, 1996, Assistant Professor, Special Education.

Lapps, A. Vernon (1968). A.B., University of Michigan, 1954; M.A., Wayne State University, 1965; Ph.D., Ohio University, 1973. Professor, Communications and Theatre.

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Launius, Margaret H. (1989). B.A., California State University-Pamona, 1981; M.A., California State University-Fullerton, 1983; Ph.D., Louisiana State University, 1988. Associate Professor, Psychology.

Leiboff, Michael D. (1989). B.A., University of Arizona, 1966; M.A., University of Nebraska, 1967. Assistant Professor, Communication and Theatre.

Lienhard, Clarence W. (1987). B.S., Lafayette College, 1982; M.S., Lehigh University, 1984; Ph.D., Ibid., 1988. Professor, Mathematics and Computer Information Science.

Loher, Brian T. (1990). B.A., Indiana University, 1980; M.A., Michigan State University, 1984; Ph.D., Ibid., 1987. Associate Professor, Psychology.

Longoria, Andrew (1992). B.A., Linfield College, 1981; M.A., University of Oregon, 1989; Ph.D., Ibid., 1992. Assistant Professor, Communication and Theatre.

Loomis, Thomas H. (1971). B.F.A., Wayne State University, 1966; M.A., Ibid., 1974. Assistant Professor, Art.

Lucero, Jesus R. (1992). B.A., University of Arizona, 1976; M.Ed., Ibid., 1981; Ed.S., Ibid., 1989. Associate Professor, Special Education.

Lukasz, Elena (1964). B.A., University of Chicago, 1959; M.A., Ibid.,1962. Associate Professor, History and Political Science.

Lutz, Terry (1977). B.S., Bloomsburg State College, 1970; Radiologic Technology, U.S. Air Force, 1972. Director, Radiology Program.

Mabe, Ann (1980). B.S., Virginia Commonwealth University, 1971; M.S., Ibid., 1978; M.A., University of Virginia, 1978, Ph.D., Ibid., 1979. Professor, Social Work, Anthropology and Sociology.

Maisner, N. Roger (1976). B.S., Eastern Michigan University, 1973; M.A., Michigan State University, 1976. Associate Professor, Health, Physical Education & Recreation.

Maris, Robert C. (1988). B.S., Texas A&M University, 1975; M.S., University of Southern Mississippi, 1980; Ph.D., Old Dominion University, 1986. Professor, Biology.

Materese, Michele (1993). B.S., LeMoyne College, 1980; B.S., SUNY-Binghamton, 1985; M.S., Ibid., 1992. Assistant Professor, Robert Packer Hospital, Department of Health Sciences.

McAdoo, Monty (1996). B.A., Thiel College, 1985; M.A., Edinboro University of PA, 1987; M.L.S., University of Pittsburgh, 1994. Instructor, Library.

McEuen, Stephen P. (1977). B.M., Northeast Missouri State University, 1974; B.M.E., Northeast State University, 1974; M.M., The Julliard School, 1976. Assistant Professor, Music.

McEwan, Mary (1993). B.S., Elmira College, 1989; M.S., SUNY-Binghamton, 1991. Assistant Professor, Robert Packer Hospital, Department of Health Sciences.

McGuire, Jane (1994). B.S., Boston University, 1956; M.S., SUNY-Binghamton, 1983; Ph.D., Cornell University, 1993. Assistant Professor, Robert Packer Hospital, Department of Health Sciences.

McQuaid, Kathleen (1990). B.A., Temple University, 1975; M.A., Ibid., 1979; Ph.D., Ibid., 1990. Associate Professor, History and Political Science.

Meyer, Kenneth A. (1972). B.A., SUNY-Oneonta, 1966; M.A., University of North Carolina-Chapel Hill, 1969; Ph.D., Ibid.,1972. Professor, Biology.

Miller, Laurance W. (1977). A.B., Susquehanna University, 1961; M.S.W., University of Pittsburgh, 1964; D.Ed., Pennsylvania State University, 1985. Professor, Social Work, Anthropology and Sociology.

Mitchell, Mary Jane (1985). B.S., University of Utah, 1975; M.P.A., University of Texas-Austin, 1980; Associate Professor, Business and Economics.

Mumma, Jacques D. (1967). B.A., Franklin & Marshall, 1965; M.A., Pennsylvania State University, 1967. Associate Professor, Mathematics and Computer Information Science.

Murphy, Joseph M. (1987). B.M.E., Bowling Green State University, 1982; M.M., Northwestern University, 1983; D.M.A., Ibid., 1994. Associate Professor, Music.

Murphy, Thomas P. (1995). B.A., Fordham University, 1968; M.A., Ohio State University, 1970; Ph.D., Ibid., 1975. Assistant Professor, English.

Murray, J. Dennis (1978). B.A., Syracuse University, 1970; M.A., University of Rochester, 1974; Ph.D., Ibid., 1975. Professor, Psychology

Musselman, Kenneth (1970). Administrative Certificate, Bloomsburg State College, 1971; M.S., Bucknell University, 1974. Assistant Professor, Education.

Newman, Ira (1972). A.B., Columbia College, 1962; M.A., Columbia University, 1971; Ph.D., University of Connecticut, 1984. Professor, Philosophy and Liberal Studies.

Nolan, Alexandra K. (1995). B.A., Washington & Jefferson University, 1974; M.A., University of Houston, 1992. Assistant Professor, Communication and Theatre.

O'Donnell, Jocelyn (1994). M.S.N., Syracuse University, 1992. Instructor, Robert Packer Hospital, Department of Health Sciences.

Older, Priscilla (1988). B.A., Case Western Reserve, 1961; M.L.S., University of Illinois, 1968; Ph.D., University of California, 1983. Associate Professor, Library.

Owens, Konrad (1966). B.M., Oberlin Conservatory, 1964; B.A. Oberlin College, 1964; M.M., Michigan State University, 1966; B.S., Elmira College, 1982; D.M.A., Michigan State University, 1988. Professor, Music.

Paskvan, Raymond F. (1968). B.A., Carleton College, 1960; M.A., University of Minnesota, 1963; Ph.D., Ibid., 1971. Associate Professor, History and Political Science.

Pien, Shui-hsien (1970). B.A., National Taiwan Normal University, 1958; M.L.S., University of Pittsburgh, 1988; M.S.Ed., Elmira College, 1975. Associate Professor, Library.

Pifer, Lynn (1991). B.A., University of Illinois, 1984; M.A., SUNY-Buffalo, 1987; Ph.D., Ibid., 1991. Associate Professor, English.

Plowcha, Charlene S. (1978). B.S., Indiana University of Pennsylvania, 1968; M.Ed., Ibid., 1977; D.Ed., Pennsylvania State University, 1987. Professor, Education.

Putt, Robert (1967). B.S., SUNY-Geneseo, 1960; M.S., Ibid., 1965; D.Ed., Pennsylvania State University, 1977. Professor, Education.

Ramasamy, Shaker G. (1984). B.Sc., Madras University, 1974; M.Sc., Ibid., 1976; Ph.D., Oklahoma State University, 1984. Professor, Chemistry and Physics.

Remy, Ronald E. (1965). B.S., California University, 1958; M.A., West Virginia University, 1961. Associate Professor, Education.

Robarge, Mark (1981). B.S., SUNY-Albany, 1973; M.A., Ibid., 1974; Ph.D., Ibid., 1979. Associate Professor, Criminal Justice Administration.

Robinson-Slabey, Mary L. (1972). B.S.E., Geneseo State College, 1964; M.Ed., SUNY-Buffalo, 1970; Ed.D., Ibid., 1972; M.S.Ed, Tech, Lehigh University, 1982. Professor, Mathematics and Computer Information Science.

Rudy, June (1968). B.S., Mansfield State College, 1960; M.Ed., Pennsylvania State University, 1971. Assistant Professor, Education.

Russell, David H. (1971). B.S., Mansfield State College, 1963. Assistant Professor, Academic & Human Development.

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